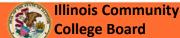


# Scaling Illinois STEM CCR Statewide

<u>Questions on Scaling (OCCRL)</u> Eboni Zamani-Gallaher John Lang Panel Discussion Kim Bowens, Harold Washington College Katie Fehrenbacher, Illinois Eastern Community Colleges Edmund Graham, OCCRL Lorenzo Baber, OCCRL (*Facilitator*)

Scaling Up Pathways To Results Conference March 10, 2015





# Pop Quiz:

## How to Scale Illinois STEM CCR Statewide?

## "The Illinois College and Career Readiness" Readiness Exam

Test Anxiety???

<u>Cheat Sheet</u> (E) 13,000 ☑ (F) You ☑ (G) ??? ☑



# Cram Session: Why STEM CCR?

### (Policy context)

### Illinois CCR Enabling Legislation (2007)

"The General Assembly finds that ... <u>Many</u> students enter college <u>unprepared</u> for the academic rigors of college and <u>require noncredit remedial courses</u> to attain skills and knowledge needed for regular, credit course work" (emphasis added).

### Complete College America (2009)

- Illinois Pledge: 60% by 2025
- +600,000 graduates

### Race to the Top Illinois Grant (2011)

- Accelerate key education reforms
- Close persistent achievement gaps
- Increasing student achievement

(CCR program initiatives)

Illinois CCR Pilot Program (2008–2012) Illinois State Funds (Math & Reading)

Illinois STEM CCR (2013–2015) Illinois RttT Grant (Math)

# More Cramming: What is STEM CCR?

### STEM CCR

- CC-HS partnership and curriculum alignment (7 CC & 22 HS)
- Student diagnosis and recruitment
- Math <u>intervention</u> for low- and medium-need students (summer and school-year)
- Student <u>support services</u> to complement academic intervention (e.g., college and career counseling)

| Harold   | Washington College, Chicago, IL       |
|----------|---------------------------------------|
| Kenw     | ood Academy                           |
| St Rit   | a HS                                  |
| Maris    | it HS                                 |
| Ogde     | n International HS                    |
| Ace T    | ech                                   |
| Walte    | er Peyton HS                          |
| South    | Shore International                   |
| Heartla  | nd Community College, Normal, IL      |
| Norm     | al West HS                            |
| Norm     | al Community HS                       |
| Bloon    | nington HS                            |
| Tri-Va   | alley HS                              |
| Ponti    | ac HS                                 |
| Illinois | Central College, East Peoria, IL      |
| Richw    | vood HS                               |
| East F   | Peoria HS                             |
| Illinois | Eastern Community College, Olney, IL  |
| East F   | Richland HS                           |
| Mt. C    | armel HS                              |
| Newt     | on HS                                 |
| John W   | ood Community College, Quincy, IL     |
| West     | ern HS                                |
| Olive H  | arvey College, Chicago, IL            |
| Corlis   | s HS                                  |
|          | go Vocational                         |
|          | Wright Community College, Chicago, IL |
|          | view HS                               |
| Taft ⊦   | IS                                    |

# Q: Scaling Illinois STEM CCR Statewide? Answer (A): The Whole State

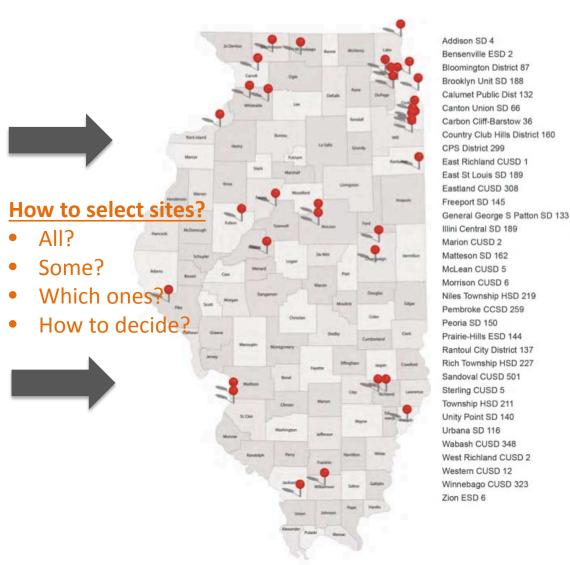
| avald Weakington Callege Chicago II        |                  | COMMUNITY HS PLAINFIELD HS CENTRAL                                                | CHAUMBURG HS HARLEN SENIOR HS GUILFORD HS JOLIET TO WISHIN HS WEST GLENBARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EAST HS WILLIAM H TAFT HS BELLEVILL                                     |
|--------------------------------------------|------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| arold Washington College, Chicago, IL      |                  | TOWNSHIP HS WEST LYONS TOWNSHIP H<br>CONANT HS AMOS ALONZO STAGG HS DEKAI         | IS POINTEED SOUTH ES CAREANDRURG HS PAATINE HS NEEDOW VALLEY HS WILLOWBRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OK HS HONDNEGAH COMM HS JAMES I<br>Y SEANOR HS MOLINE SENIOR HS PLAINF  |
| Kenwood Academy                            |                  | NORTH HS YOUTH CONNECTION CHAR'<br>EDWARDSVILLE SENIOR HS THOMAS JEFFERS          | TER SCH ULTOWNS CONTROL TO WILSHIP ITS ADDIDALE THAT ITS HOFFMAN ESTATES HS WAS HI<br>SON HS YON Black Hawk College Molines COMMUNITY HS DIST 99 NORTH HS H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NGTON COMMUNITY HS BARTLETT HS<br>IARRY D JACOBS HS BOGAN HS ROMEOV     |
| St Rita HS                                 |                  | HS PROVISO WEST HS LAKE VIEW HS HYDE<br>MEADOWS HS NILES TOWNSHIP WEST HS EA      | PARK ACADICITY COLLEGES OF CHICAGE BOACCHICAGEO WATS CHITTES CHARLESISTE<br>ST AURORA HS WHEATCHICAGE AND A CHICAGEO CHICAGEO CHICAGEO CHICAGEO CHICAGEO CHICAGEO CHICAGEO CHICAGEO CHICAGEO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | INMETZ CPHS LINCOLN PARK HS ROLLIN<br>HS METAMORA TOWNSHIP HS BATAVI.   |
|                                            |                  | EAST PEORIA COMMUNITY HS GENEVA COMM<br>DUNDEE-CROWN HS OAK LAWN COMMUN           | MUNITY HS LRICHARD JE DALEY COLLEGE HS YORKVILLE HS JOLIET CENTRAL HS THORN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WOOD HS WOODSTOCK HS SOUTH ELG                                          |
| Marist HS                                  |                  | OSWEGO HS CRYSTAL LAKE SOUTH HS GLEP<br>COLLINSVILLE HS BELVIDERE NORTH HS STE    | ITY HS WILLING FINE OVER THE CONSTRUCTION AL CAREER ACAD MCHENRY WEATHS WITTON<br>NBARD WEST NOT A CONSTRUCTION OF THE ACAD MCHENRY WEATHS WITTON<br>PIPENT T MAN MALCOLOR & COLOR BERTALD GROVE HS EAST SAINT LOUIS SENIOR HS EL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PROTE CAGOVOCATIONAL CAREER AC                                          |
| Ogden International HS                     |                  | FENTON HS WHEATON NORTH HS QUINCY SE<br>FRACTIONAL SOUTH HS VON STEUBEN METI      | ENIOR HS HINOLINE HARVEY COLLEGE THE NUES NORTH HS PROSSER CAREER ACADEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S PROSPECT HS ROCK ISLAND HS THORN<br>Y KANELAND HS THORNTON TOWNSHIP   |
|                                            |                  | BELVIDERE HS WARREN TWP HS-ALMOND CA<br>PERCY L JULIAN HS DUNLAP HS MAINE WE      | MPUS BARE HARTY SUTTUMAN COllege LEMENTE CMTY ACADEMY (CG-KONP VOC<br>EST HS A AND SHERTY SUTTING A SHERTA GATE A CADEMY KENWOOD ACADEMY MARION HS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D HUNTLEY HS ILLINO S VALLEY CENTR                                      |
| Ace Tech                                   |                  | TOWNSHIP HS EAST JOHN HERSEY HS TRIAD H                                           | ESUESALAN BAROID WAShington College Ewr Kenwood Acapemy Marion H<br>BETHORNFON HARIONAL TIMES CONTRACT CONTRACT AND A CAPENDARY MARION HE<br>Sama dha Wilbur Wright College's Civic Memoria, HS Galesburg HS MAHON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | REMAN HS EAST HS JERSEY COMMUNIT                                        |
| Walter Peyton HS                           | 7 Community Coll | COMMUNITINS DOUGLAS MACARTHUR HS                                                  | Banville Area Community College, Danville                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COLN-WAY NORTH HS MORRIS COMMU                                          |
| South Shore International                  | community com    | CAHOKIA HS HOMEWOOD FLOSS MOOR CMT                                                | NG MAGNETCOllege of DuPage, Glen Ellyna, HS MARENGO COMMUNITY HS<br>Y HS OA TO East St. Louis Community College Center, East St. Loui                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                         |
|                                            |                  | OAK PARK-RIVER FOREST HS CORLISS HS IG<br>BENTON TOWNSHIP HS MAINE TOWNSHIP F     | HIN HOPE COLLEGE PRETHS MALEY ARK IS MOUNT 2014 S MANUAL ACADEMY HINS AL<br>IS SOUTH ICEIgin Community College, Elgin Brockfield HS Southwester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CENTRAL HS SENN HS GENESEO HS ZI                                        |
| eartland Community College, Normal, IL     |                  | KINGSTON HS SANDWICH CMTY HS ADDALES<br>HS EVANSTON TOWNSHIP HS COAL STY HS P     | STEVENSON HAPPER COLLEGE PALATING LAND HS HING COLLEGE INTER MICHAELE CLAI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K ACADEMIC PREP HS HERRIN HS PEO<br>IGER ACADEMY HS RICH CENTRAL HS C   |
| Normal West HS                             |                  | MONEE HS EUREKA HS WINNER GO HS AL<br>GRAND HS RICH SOUTH HS REGO CUSTER HS C     | MBrsdH - Heartland Community College, Normal Hs wells COMMUNICENTRAL HS Highland Community College, Freeport North HS RAN OU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Y ACADEMY ELMWOOD PARK HS NOR<br>TOWNSHIP HS WATERLOO HS CARTE          |
| Normal Community HS                        |                  | HS GLENBROOK SOUTH HS PLANO HS SAINT JO<br>CRANE TECH PREP COMMON SCHOOL ILLINI B | OSEPH-OGDEN BY MICKNEYVILLE CMYY HY SENECA HS MANEEY CAREER ACADEMY HS MAN<br>BLUFFS HS JO <b>llinois Central College</b> , <b>East Peoria</b> e Hs grays lake(central h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TENO SENIOR HS MONTICELLO HS BLO<br>S JOHNSBURG HS MURPHYSBORO HS N     |
| •                                          |                  | BOONE HS RICHMOND-BURTON COMMUNIT                                                 | Y HS ROUND IL Eastern Community Colleges, Olney Den Career Community Colleges, Olney Den Career Community                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TY ACAD WILLIAM R HARPER HS HAM                                         |
| Bloomington HS                             |                  | CONSOLIDATED HSMHRITAPOCK STILLMAN                                                | VALLEY IS U Frontier Community College, Fairfield DA HS DUDONN HS MIR<br>AGRICU TUR LINCOM Trail College, Robinson W BROOKS COLL PREPACE A N LAW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TA RAMIREZ COMPUTER SCIENCE CHI                                         |
| ri-Valley HS                               |                  | SCHOLASTIC INST OTTAWA TOWNSHIP HE<br>CENTRAL HE ORR ACADEMY HE STREATON          | SRICH EAST HE RUDGEWOOD HEAD CONTRACT, HE WESTMONT HE ELDORADO HE FRANKFORT CM<br>R. TOWNSHI OINEY, CentralsCollege, Oiney Romzewille Clinton Community H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ITY HS GLENWOOD SENIOR HS MIDWE                                         |
| Pontiac HS                                 |                  | COMMUNITY HS WAUCONDA HS DIXON<br>CHARLESTON HS FREEPORT SENIOR HS LAND           | HS NORMA Wabash Valley College, Mt. Carmel My HS GRANT CO harmen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPECTIVES-R D JOSLIN CAMPUS SOM                                         |
|                                            |                  | HS SPRINGFIELD SOUTHERS HS STERLING                                               | HOUSER CR. IL Valley Community College, Oglesby: WH REBLOOMINGTO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N HS JOHNSTON CITY HS LINDBLOM N                                        |
| ois Central College, East Peoria, IL       |                  | COMMUNITY HS BRIMFIELD HS MUDLAND H                                               | DEMY TRICOLOFIET JUNIOR College, Joffet, wis Ale fech charter he CARVER MI<br>He recation Head and the College, Joffet, which head head head head head head head hea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MY KEWANEE HS ROCKRIDGE HS SESS                                         |
| ichwood HS                                 |                  | SOUTH SHORE NORMAL COMMUNITY HS                                                   | ARRENSE Kaskaskia College, Centralia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L DYETT HS BUREAU VALLEY HS CHICA                                       |
|                                            |                  | HS JONES COLLEGE PREP SOUTH BELOIT<br>COMMUNITY HS NORRIS CITY OMAHA ENE          | HWESCLIN Kishwaukee College, Malta MOMENCE COMMUNITY HS NEW TRIER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TOWNSHIP HS ELMWOOD HS HARVAR<br>SEVILLE HS SM SCH ENTREPRENEURSH       |
| ast Peoria HS                              |                  | SHORE KNOXVILLE HS ROCHESTER HS STARI                                             | K COUNTY HS BESTING EFFINGERAM HS FIELD HS THS DLYNN HS PITTSFIELD HS ROCK FALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S TOWNSHIP HS SCHOOL OF TECHNOL                                         |
| nois Eastern Community College, Olney, IL  |                  | COMMUNITY HS NORTHSIDE COLLEGE M                                                  | Procee Lewis & Clark Community College, Godfrey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ATSEKA COMBRIDINITY HS ILLINI WEST H                                    |
| East Richland HS                           |                  | HERITAGE HS PEORIA HEIGHTS HS AUSTIN<br>WOMENS LORSH CHARTER SCH CARLY IE HS      | BUS FUTRED Lincoln Land Community College, Springfields Noustry H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S WALTER PAYTON COLLEGE PREP YOU                                        |
|                                            |                  | CAMP POINT CENTRAL HS CARLINVILLE HS                                              | CREACUTION IN A Logan College, Carterville on a callounty comercian of the care of the comercian of the come | IBURN HS BOND COUNTY CMTY UNIT                                          |
| Mt. Carmel HS                              |                  | SENACHWINE HS OAKWOOD HS POPE CO                                                  | Is ve Woraine Valley Community College, Palos Hills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | GROVE HS AC COMMUNICATIONS-TE                                           |
| Newton HS                                  | 22 High Schoo    |                                                                                   | ENT HS FAIR MORTON COllege, Cicero: HOPESTON AREA HS PLEASANT PLAINS HS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNITED HS WILLIAMSVILLE HS DONOV                                        |
| hn Wood Community College, Quincy, IL      |                  | KIDIAN HS MORRISON COMMUNITY HS N                                                 | H LEWSTOVO Acton Community College, Des Plaines central hs watto<br>wewton community College, Chaingaign crest hs prove the structure of the state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NVILLE HS GOREVILLE HS HALL HS MEN                                      |
|                                            |                  | COMM HS LITCHFIELD SENIOR HS MAD                                                  | ISON SENIOR Prairie State College, Chicago Heights                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MONT HS HIS SEORO HS ALWOOD HS                                          |
| Vestern HS                                 |                  | HS LE ROY HS LEBANON HS ROWVA HS GEOR                                             | REFORM REACTING AND A COMPACT AND A CARONA                                                                                                                                                                                                                                             | EERFIELD HS HAMILTON HS SHELBYVILL                                      |
| ve Harvey College, Chicago, IL             |                  | CENTER HS ATHENS COMMUNITY HS CATLIN<br>PERRY HS JAMAICA HS MOUNT PULASKI HS N    | HBURNHS<br>HS CICS-RA<br>RECK VALLEY COLLEGE, DECATURENESS FOR COLLEGE AND A COLLEGE AS INCOMPLETED AND<br>KOKOMIS HS ROCK VALLEY COLLEGE, ROCKFORD VELOW HS MULBERRY GROVE HS P.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TRACES PAYSON SEYMOUR HS GRIGGSV                                        |
|                                            |                  | VALLEY JR-SR HS WEST PRAIRIE HS DEVRY<br>FI VERADO HS FLORA HS GALVA HS MARIN     | ADVANTAGCarl Sandburg College, Galesburg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TRI-ROINT HS WINDSOR HS BEECHER H                                       |
| Corliss HS                                 |                  | FLANAGAN-CORNELL HS JANE ADDAMS HS I<br>COULTERVILLE HS FORRESTON HS SAINT FLM    | NOBLE ST CHSauk Walley Community College, Dixon ST CENTRAL HS BRUSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ELS COMMUNITY HS COLLINS ACADEM                                         |
| Chicago Vocational                         |                  | STEWARDSON-STRASBURG HS UNITY HS W                                                | IO HS WARS & Hawner Continuinty College, Ulline HS Too A Show of the Vest CAROLLAS AND AND A SHORE AND | ESWEST ACAD DAKOTA JR-SR HS GIRA                                        |
| Ibur Wright Community College, Chicago, IL |                  | U OF CHICAGO CHARTER-WOODLAWN BEE<br>MOUNT OLIVE HS NOBLE ST CHARTER-GO           | CHER CITY HS Chutheastern Illinois College, Harrisburg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | HUTSONVILLE HS MARTINSVILLE JR-SF<br>TURE HS-WILLIAMS COMPLX BLI IFFS H |
|                                            |                  | COWDEN-HERRICK HS DEPUE HS EASTLANI<br>WOODLAND HS CAHOKIA SCHOOL OF CHOIC        | D HS FRANK Southwestern Illinois College, Belleville, champersburg h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MOUNT CARMEL HS SOUTHEASTERN                                            |
| Lakeview HS                                |                  | LOVEJOY TECHNOLOGY ACADEMY LOVINGT<br>FUITON HS GRAVVILLE HS GREENVIEW UNION      | EE CRESCENTS DOOD TRIVERY COLLEGES CANNON THAN SCIENCE ACAD INNO VATION<br>ON HS NORTHWESTERN HS HED HILL PROCEEDED AND AND SCIENCE ACAD INNO VATION<br>R SENICH HS <b>Fritort College Rivert Grove</b> , vit as virginia HS will am spece s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IOR HS AUSTIN POLYTECHNICAL ACAD                                        |
| Taft HS                                    |                  | HS AVON HS KANSAS HS NOVAK ACADEMY C                                              | OHIO COMMWaubonsee Community College, Sugar Grove Stampis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ESTELLE SAUGET ACADEMIC CENTER LY                                       |
|                                            |                  | BOWMAN ACADEMY LEXINGTON HS OLIVE H                                               | ARVEY MIDDIODN WOOD COMMUNITY College QUINCY TY HS REPORTIVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CALUMET HS TECH TOMORROWS BUIL                                          |
|                                            |                  | CHICAGO VIRTUAL CHARTER DOLAN CTR MAI                                             | FRICHLAND HS JAMES H BOWEN HS PARIS COOLED THY HIGH SCH-04 PRODOCUP EARLY COL<br>RYVILLE FARM CAMPU ILLINOIS SCHOOL FOR THE DOWNOBLE ST CHART-ROWE-CLARK ACAD<br>RM SCHOOL YOUTHBUILD MICLEAN CO CHARTER ADSINC COMMUNITY HS CISNE HS CURTIS N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PEACE-EDUCATION COALITION ALT PE                                        |

CENTER FOREST VIEW ALTERNATIVE SCHOOL GALENA HS J STERLING MORTON ALTERNATIVE ROBERT LINDBLOM COLLEGE PREP SCALES MOUND HS SOUTH SHORE HS STOCKTON HS All Other HS: All HS:

I

Answer (B): Race to the Top Districts 🗹

|            | Washington College, Chicago, IL       |
|------------|---------------------------------------|
| Kenwo      | ood Academy                           |
| St Rita    | a HS                                  |
| Maris      | t HS                                  |
| Ogder      | n International HS                    |
| Ace Te     | ech                                   |
| Walte      | r Peyton HS                           |
| South      | Shore International                   |
| Heartlaı   | nd Community College, Normal, IL      |
| Norm       | al West HS                            |
| Norm       | al Community HS                       |
| Bloom      | nington HS                            |
| Tri-Va     | lley HS                               |
| Pontia     | ac HS                                 |
| Illinois C | Central College, East Peoria, IL      |
| Richw      | ood HS                                |
| East P     | eoria HS                              |
| Illinois E | astern Community College, Olney, IL   |
| East R     | ichland HS                            |
| Mt. Ca     | armel HS                              |
| Newto      | on HS                                 |
| John Wo    | ood Community College, Quincy, IL     |
| Weste      | ern HS                                |
| Olive Ha   | arvey College, Chicago, IL            |
| Corlis     | s HS                                  |
| Chica      | go Vocational                         |
| Wilbur \   | Wright Community College, Chicago, IL |
| Lakev      | iew HS                                |
| Taft H     | S                                     |



# Back to the Beginning

### Illinois CCR Enabling Legislation (2007)

"The General Assembly finds that ... <u>Many</u> students enter college <u>unprepared</u> for the academic rigors of college and <u>require noncredit remedial courses</u> to attain skills and knowledge needed for regular, credit course work."

### Educational policy questions:

- How many is "many"?
- <u>Who</u> are they?
- <u>Where</u> are they?

We shall not cease from exploration, and the end of all our exploring will be to arrive where we started and know the place for the first time.

-T. S. Eliot, *Four Quartets* 

# "Many": (C) Low and Medium Need Students within STEM CCR schools

| Current Grade Level   | #         | %  |  |
|-----------------------|-----------|----|--|
| Junior (fall or spr.) | spr.) 59  |    |  |
| Junior (rising        |           |    |  |
| Senior (fall or How r | How many? |    |  |
| Senior (rising)       | 21        | 6  |  |
| High School Graduate  | 28        |    |  |
| Total                 | 341       | 99 |  |

| Race/Ethnicity     | #           | %    |      |
|--------------------|-------------|------|------|
| American Indian/Al | 2           | 0.5  |      |
| Black/African Amer | 94          | 23   |      |
| Asian              | W/ho2       | 7    | 1.7  |
| Hispanic or Latino | <u>Who?</u> | 74   | 28.5 |
| White              | 177         | 43.3 |      |
| 2 or more races    |             | 7    | 1.7  |
| Total*             |             | 287  | 98.7 |

| Harold Washing    | ton College, Chicago, IL       |
|-------------------|--------------------------------|
| Kenwood Acad      |                                |
| St Rita HS        |                                |
| Marist HS         |                                |
| Ogden Interna     | ational HS                     |
| Ace Tech          |                                |
| Walter Peyton     | HS                             |
| South Shore Ir    | iternational                   |
| Heartland Comm    | nunity College, Normal, IL     |
| Normal West I     | HS                             |
| Normal Comm       | unity HS                       |
| Bloomington       |                                |
| Tri-Valley HS     | Where?                         |
| Pontiac HS        |                                |
| llinois Central C | College, East Peoria, IL       |
| Richwood HS       |                                |
| East Peoria HS    |                                |
| llinois Eastern O | Community College, Olney, IL   |
| East Richland     | HS                             |
| Mt. Carmel HS     | 5                              |
| Newton HS         |                                |
| John Wood Com     | nmunity College, Quincy, IL    |
| Western HS        |                                |
| Olive Harvey Co   | llege, Chicago, IL             |
| Corliss HS        |                                |
| Chicago Vocat     |                                |
| Wilbur Wright C   | Community College, Chicago, IL |
| Lakeview HS       |                                |
| Taft HS           |                                |

Question Remains: Who, where, how many, <u>statewide</u>?

# (Un)Readiness: A <u>Statewide</u> View Act Readiness Benchmarks



## Act College Readiness Benchmarks

### Math

Science

English

Reading

Math: College Algebra Ready ACT Test: 22 ACT Compass: 52 => B or better (50% chance) => C or better (75% chance)

Other Benchmarks Science (23) Reading (22) English (18)

Source: What Are the ACT College Readiness Benchmarks? (2013, September) www.act.org/research

# Math Performance ACT Benchmark: U.S./Illinois\*

Nationwide (2014): 1.85 million (57% of graduating students)

- Average score: 20.9
- Change (2010 to 2014): 21.0 =>
  20.9
- Benchmark success (22+) : 43%

Illinois (2014): 158,000 (100% of graduating students)

- Average Score: 20.7
- Change (2010 to 2014): 0.0
- Benchmark success (22+):
  - 65,000 ready (41%)
  - 93,000 not ready (59%)

\*Source for data and graphics: ACT Research and Policy www.act.org/research



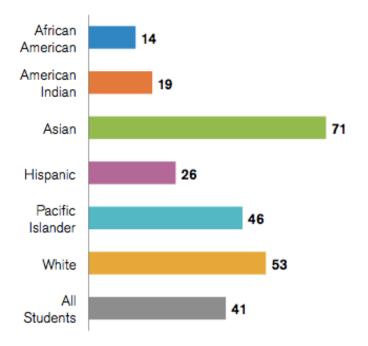
# The "Many" in Illinois: (D) 93,000

### Average Scores

### % Readiness

| Mathematics |
|-------------|
| 20.7        |
| 17.2        |
| 17.8        |
| 22.3        |
| 18.8        |
| 25.2        |
| 21.0        |
| 21.1        |
| 19.7        |
|             |

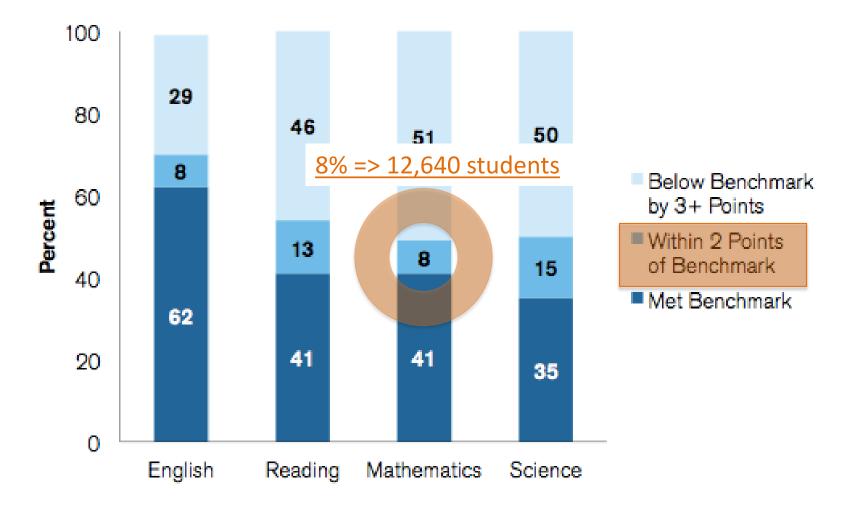
### **Mathematics**



Problem: Includes every <u>un</u>ready student (low, medium, and <u>high</u> need), everywhere statewide...

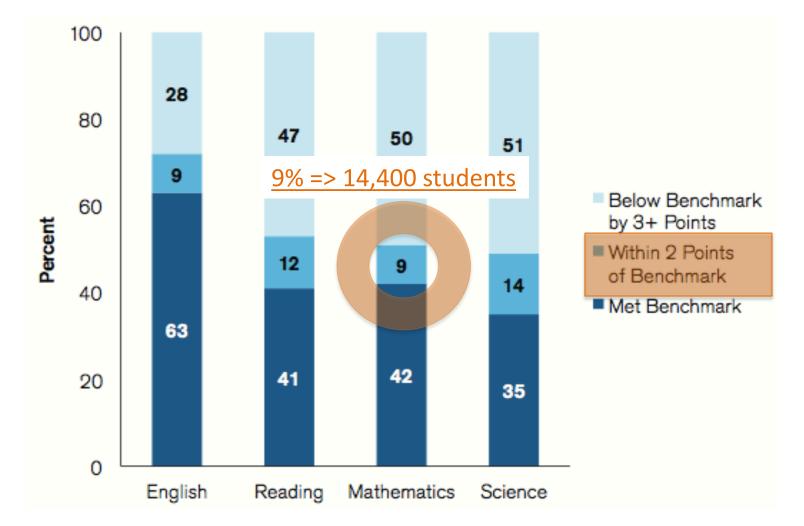


### Percent of 2014 ACT-Tested High School Graduates by ACT College Readiness Benchmark Attainment and Subject

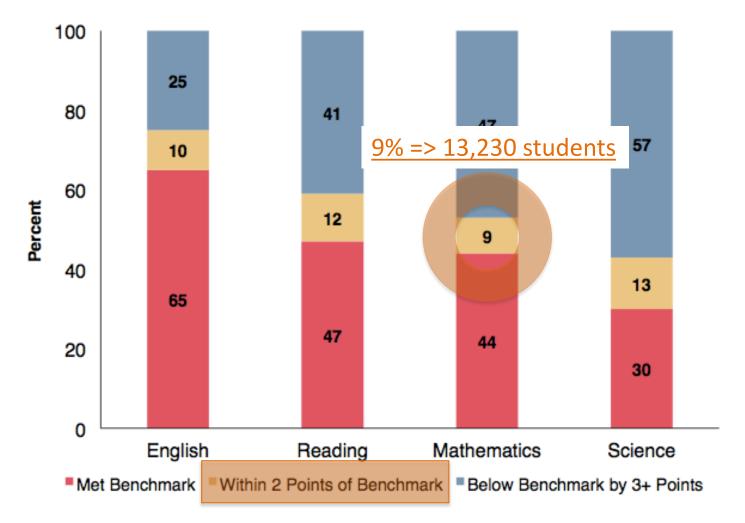




### Percent of 2013 ACT-Tested High School Graduates by Benchmark Attainment and Subject



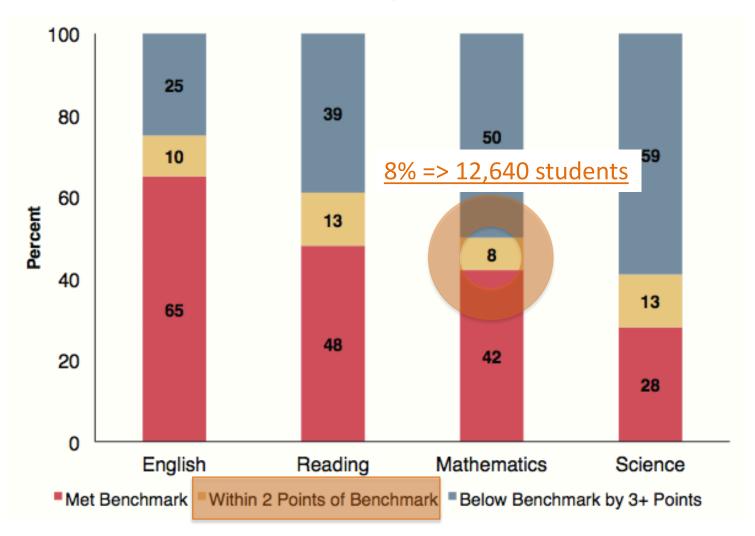
### Percent of 2012 ACT-Tested High School Graduates by Benchmark Attainment and Subject



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**COLLEGE OF EDUCATION** AT ILLINOIS

## Percent of 2011 ACT-Tested High School Graduates by Benchmark Attainment and Subject





# For STEM CCR: How Many is "Many"?

Low and Medium Need: Statewide

| Benchmark   |     | 2014       | 20   | 013        |     | 2012       |     | 2011       |                                       |
|-------------|-----|------------|------|------------|-----|------------|-----|------------|---------------------------------------|
| 22+ (Ready) | 41% | 64,780.00  | 41%  | 65,600.00  | 44% | 64,680.00  | 42% | 60,690.00  | <u>Average</u>                        |
| 20-21       | 8%  | 12,640.00  | 9%   | 14,400.00  | 9%  | 13,230.00  | 8%  | 11,560.00  | 12,957.50                             |
| 19 below    | 51% | 80,580.00  | 50%  | 80,000.00  | 47% | 69,090.00  | 50% | 72,250.00  | (8.5%)                                |
|             | 100 |            |      |            | 100 |            | 100 |            | , , , , , , , , , , , , , , , , , , , |
| Total       | %   | 158,000.00 | 100% | 160,000.00 | %   | 147,000.00 | %   | 144,500.00 |                                       |

<u>As a question of STEM CCR educational policy:</u> The "Many" = <u>8%</u> of Illinois students each year (low/med. need) Answer (E): The "Many" = <u>13,000</u> students each year  $\checkmark$ 

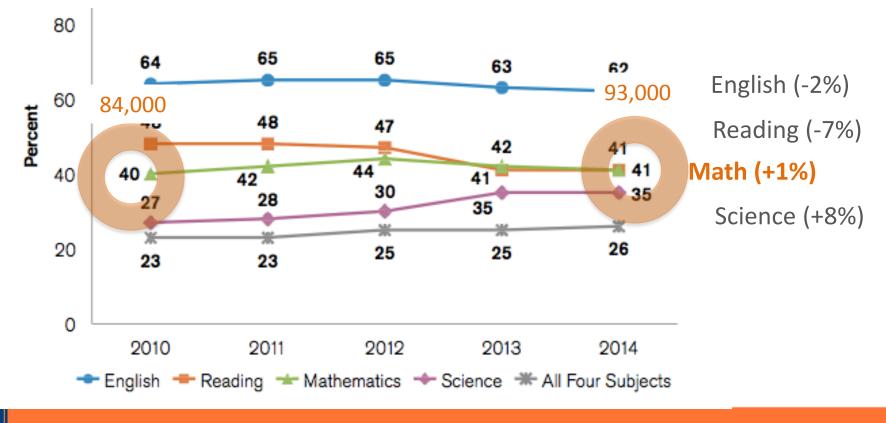
What would an 8% increase mean, nationally?



# ACT Math Benchmark Illinois 5-Year Performance

Percent of 2010–2014 ACT-Tested High School Graduates Meeting ACT College Readiness Benchmarks\*\*

## What would an 8% math increase mean?



# Illinois vs. Other States

## ACT-tested graduating students: 100% (2014)

| Rank | State          | % tested | # tested | % Ready |         |
|------|----------------|----------|----------|---------|---------|
| new  | Illinois (+8%) | 100%     | 158,000  | 49%     | Soaring |
| 1    | Illinois       | 100%     | 158,000  | 41%     |         |
| 2    | North Dakota   | 100%     | 7,227    | 41%     |         |
| 3    | Colorado       | 100%     | 56,510   | 39%     |         |
| 4    | Montana        | 100%     | 9,611    | 39%     |         |
| 5    | Utah           | 100%     | 35,074   | 39%     |         |
| 6    | Michigan       | 100%     | 119,900  | 35%     |         |
| 7    | Wyoming        | 100%     | 6,098    | 34%     |         |
| 8    | North Carolina | 100%     | 97,443   | 33%     |         |
| 9    | Kentucky       | 100%     | 48,845   | 31%     |         |
| 10   | Tennessee      | 100%     | 69,505   | 30%     |         |
| 11   | Louisiana      | 100%     | 49,178   | 27%     |         |
| 12   | Mississippi    | 100%     | 28,481   | 21%     |         |

6 Soaring success rate!



# Illinois vs. Other States

## ACT-tested graduating students: 75%+ (2014)

| Rank | State          | % tested | # tested | % Ready |
|------|----------------|----------|----------|---------|
| 1    | Minnesota      | 76%      | 45,305   | 61%     |
| 2    | South Dakota   | 78%      | 6,724    | 52%     |
| 3    | Kansas         | 75%      | 23,924   | 50%     |
| new  | Illinois (+8%) | 100%     | 158,000  | 49%     |
| 4    | Nebraska       | 86%      | 17,768   | 45%     |
| 5    | Missouri       | 76%      | 48,865   | 45%     |
| 6    | Illinois       | 100%     | 158,000  | 41%     |
| 7    | Arkansas       | 93%      | 26,821   | 35%     |
| 8    | Oklahoma       | 75%      | 28,682   | 35%     |
| 9    | Florida        | 81%      | 129,676  | 33%     |
| 10   | Alabama        | 80%      | 37,985   | 31%     |
| 11   | Hawaii         | 90%      | 11,797   | 27%     |

Big step up, especially given the scale...



# Illinois vs. Other States

Large graduating students populations (2014)

|      |                | ACT      |          |         |
|------|----------------|----------|----------|---------|
| Rank | State          | % tested | # tested | % Ready |
| 1    | California     | 29%      | 113,732  | 57%     |
| 2    | New York       | 27%      | 54,496   | 67%     |
| new  | Illinois (+8%) | 100%     | 158,000  | 49%     |
| 3    | Texas          | 40%      | 116,547  | 47%     |
| 4    | Illinois       | 100%     | 158,000  | 41%     |

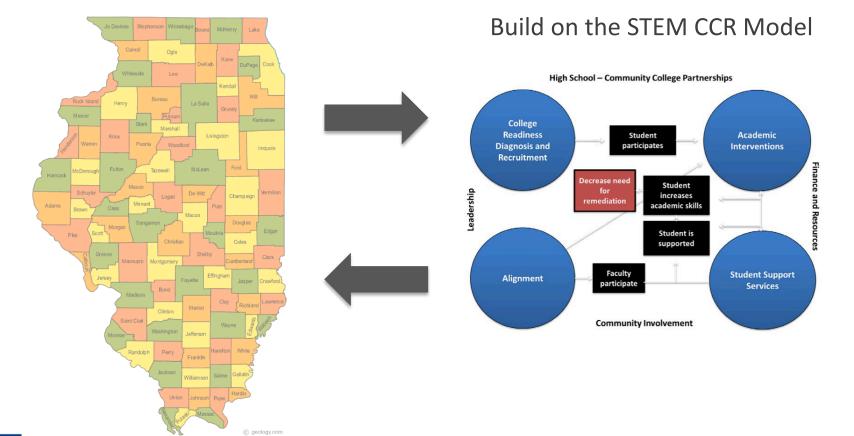
Solid improvement, given scale and success rate...



# Scaling Illinois STEM CCR Statewide?

How many, who, and where?

Q: What to scale?



# To Design and Scale STEM CCR Something is missing...

## Answer: (F) You!

- Your STEM CCR experience
- Your educational expertise
- Your commitment to student success

Community College PartnersInstructorsCoordinatorsOeansOtief academic officersPresidents

High School Partners Teachers ☑ Department chairs ☑ Counselors ☑ Principals ☑

Panel Question: How would you (re)design STEM CCR Statewide?



# Unanswered Questions: Who and where are the "many"?

### Who are the low/med. need students?

- Race/ethnicity
- Income level

### Where are they?

- High schools
- School districts
- Community college districts

How to align with: Answer (B): Race to the Top Districts ☑ Answer: (G) ??? (We don't know...)



<u>ACT data:</u>

- + student scores
- + demographics (who)
- + high schools (where)

# HAROLD WASHINGTON COLLEGE

# M<sup>2</sup> APS

Math Movement for Academic and Professional Success **Kim Bowens** Project Coordinator



CITY COLLEGES of CHICAGO Harold Washington Education that Works

# PROGRAM OVERVIEW

- Summer Intervention on HWC Campus
  - Summer 2013 4 weeks 7 students
  - Summer 2014 5 weeks 9 students
- College and Career Readiness
- Mentoring Program with students and college administrators
- Fall and Spring Intervention at the high school 42 students



CITY COLLEGES of CHICAGO

Education that Works

# M<sup>2</sup> APS Design and Implementation

## High School Partnerships

- Dual Credit Partner Schools
  - Daniel Hale Williams
  - ➤ Kenwood High School
- Dual Enrollment Feeder Schools
- CPS Strategic Partnerships

## **Recruitment Strategies**

- Dual Credit Schools we focused on students who placed in Math 99 during Dual Credit COMPASS testing.
- Dual Enrollment and Strategic Partnerships identified students who place into Math 99 on COMPASS.



CITY COLLEGES of CHICAGO

Education that Works

# M<sup>2</sup> APS Design and Implementation

## Student Services

 Orientation, Campus Tour, Photo ID, Advisor Workshop, Financial Aid Workshop, Transfer and College Essay Workshop, Interest Assessment, Resume, Cover Letter and Thank You Letter Prep, Interviewing Skills, Mock Interviews, Study Skills, Test Taking Strategies, Learning Styles, Branding, Social Media and Daily Reflection.

## Mentoring Program

- Mentoring Program with students and college administrators
- Matched Students and Administrators by career interest
- Mentoring sessions focused on supporting student in becoming college and/or career ready.



CITY COLLEGES of CHICAGO

ducation that Works

# M<sup>2</sup> APS Design and Implementation

## **Curriculum Alignment**

- HWC and Kenwood High School
- 3 HWC Math Faculty and 6 Math Teachers at Kenwood
- Established monthly meeting through June and currently aligning HS and college course to course alignment.

## Math Intervention

- Math Instruction in Summer Intervention 2.5-3 hours a day 4 days a week
- Included COMPASS pre and post test
- Abbreviated Math 99 Intermediate Algebra with Geometry curriculum created and taught by a HWC Math Faculty



CITY COLLEGES of CHICAGO

# The Big Picture

## <u>Success</u>

- One tested at college level immediately following intervention, 2 have transitioned to HWC as incoming freshman, 3 are currently enrolled in Dual Credit and or Dual Enrollment (Summer 2013)
- Two tested at college level immediately following intervention and enrolled in college level math in Fall, 3 are enrolled in non math Dual Credit/Dual Enrollment (Summer 2014)

## <u>Challenges</u>

- Competing Programs such as Summer jobs, Summer School, vacation travel, school trips
- Program scheduling needs to work with high school student scheduling
- Implementing College and Career Readiness at HS
- Collaboration between high school and college instructor is key
- Streamlining data collection through counselor



CITY COLLEGES of CHICAGO Harold Washington Education that Works

# **Contact Information**

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CITY COLLEGES of CHICAGO Harold Washington Education that Works

### Science - Technology - Engineering - Mathematics

### **Illinois Eastern Community Colleges**

Frontier Community College

Lincoln Trail College

Olney Central College

Wabash Valley College

**Dr. Jervaise McDaniel** Associate Dean of Outreach

**College & Career** 

**Readiness** 

Katie Fehrenbacher

STEM CCR Grant Coordinator TRIO Talent Search Advisor

**Leslie Shan** STEM CCR Grant Coordinator

# **Intervention History**

| Semester    | Number of<br>Students | Classes<br>Offered                                            | Locations                                                                                                 |
|-------------|-----------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Summer 2013 | 13                    | Intermediate Algebra<br>Beginning Algebra                     | Olney Central College                                                                                     |
| Fall 2013   | 25                    | Intermediate Algebra<br>Remedial English                      | East Richland High School                                                                                 |
| Spring 2014 | 31                    | Beginning Algebra                                             | East Richland High School                                                                                 |
| Summer 2014 | 30                    | Beginning Algebra<br>Intermediate Algebra                     | Frontier Community College<br>Lawrenceville High School<br>Lincoln Trail College<br>Olney Central College |
| Fall 2014   | 47                    | Beginning Algebra<br>Intermediate Algebra<br>Remedial English | East Richland High School                                                                                 |
| Spring 2015 | 13                    | Remedial English                                              | East Richland High School                                                                                 |

# **Strategies for Scaling**

### • Collaboration

- Within the institution
- Within the K-12 community

### • Flexibility

- School schedules
- Student availability

### • Tangible Outcomes

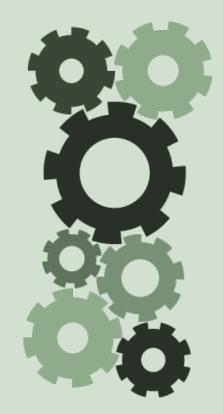
 Intervention completion is equivalent to college remedial requirement

### • Creativity

- Innovative team members
- Understanding community culture



# **IECC: Scaling Up**



- Additional English classes
- Offer reading classes
- Expand school year interventions
- Manufacturing Career Fair
- Partner with TRIO Upward Bound

## **Contact Information**

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