

Dataseam:

Investments and Partnerships

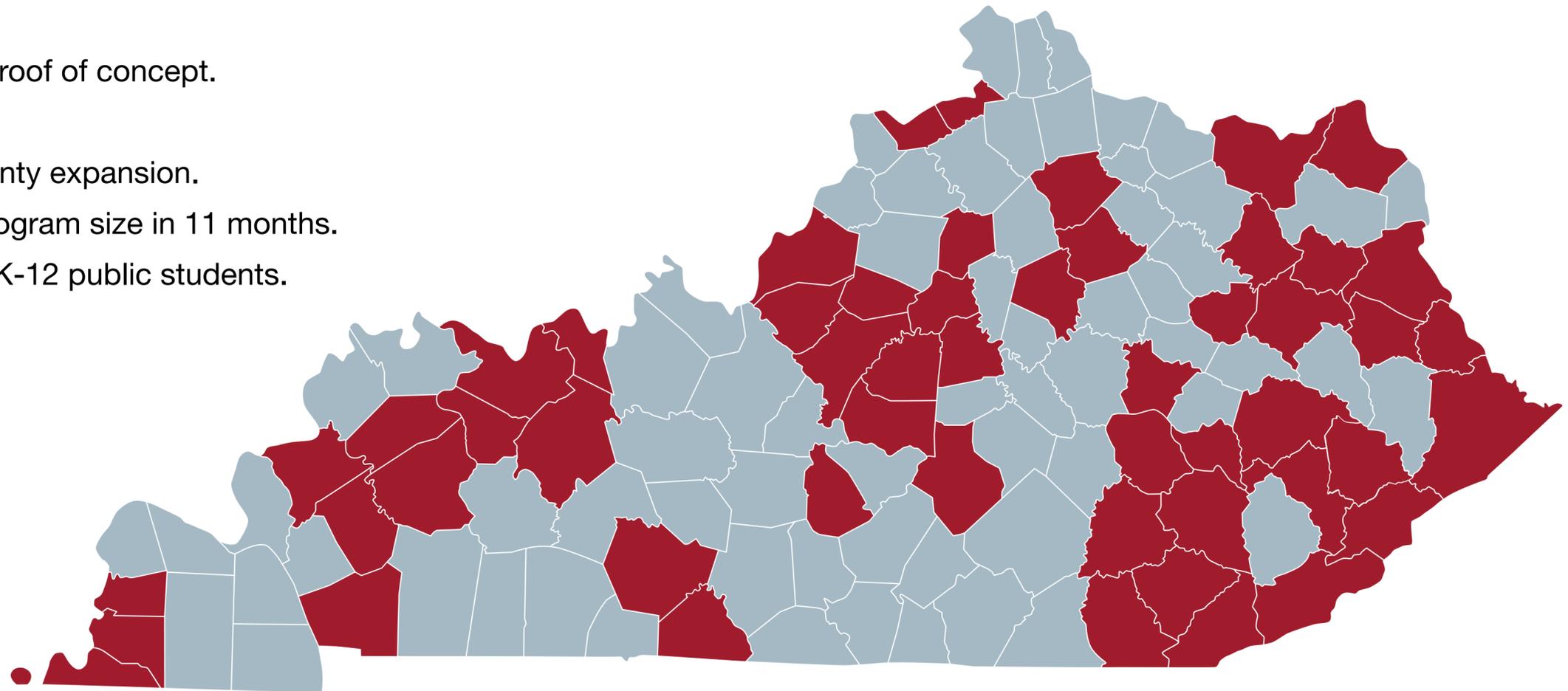
Building the Next-Generation Kentucky Workforce

Dataseam

FY 25 Basic Facts:

K-12 schools earning advanced computers by improving Kentucky's rural technology workforce. Computers create statewide DataseamGrid commercializing university research. Use to recruit students into STEM and STEM education fields funded by opportunities at the University of Louisville and Morehead State University.

- 2003: Initial Dataseam Concept Development.
- 2004: Caldwell County – Research Infrastructure proof of concept.
- 2005: KEDFA grant for coal severance counties.
- 2006: Legislative appropriation continues coal county expansion.
- 2018: General Fund appropriation shift doubles program size in 11 months.
- Today: 60 districts representing 40% of Kentucky K-12 public students.



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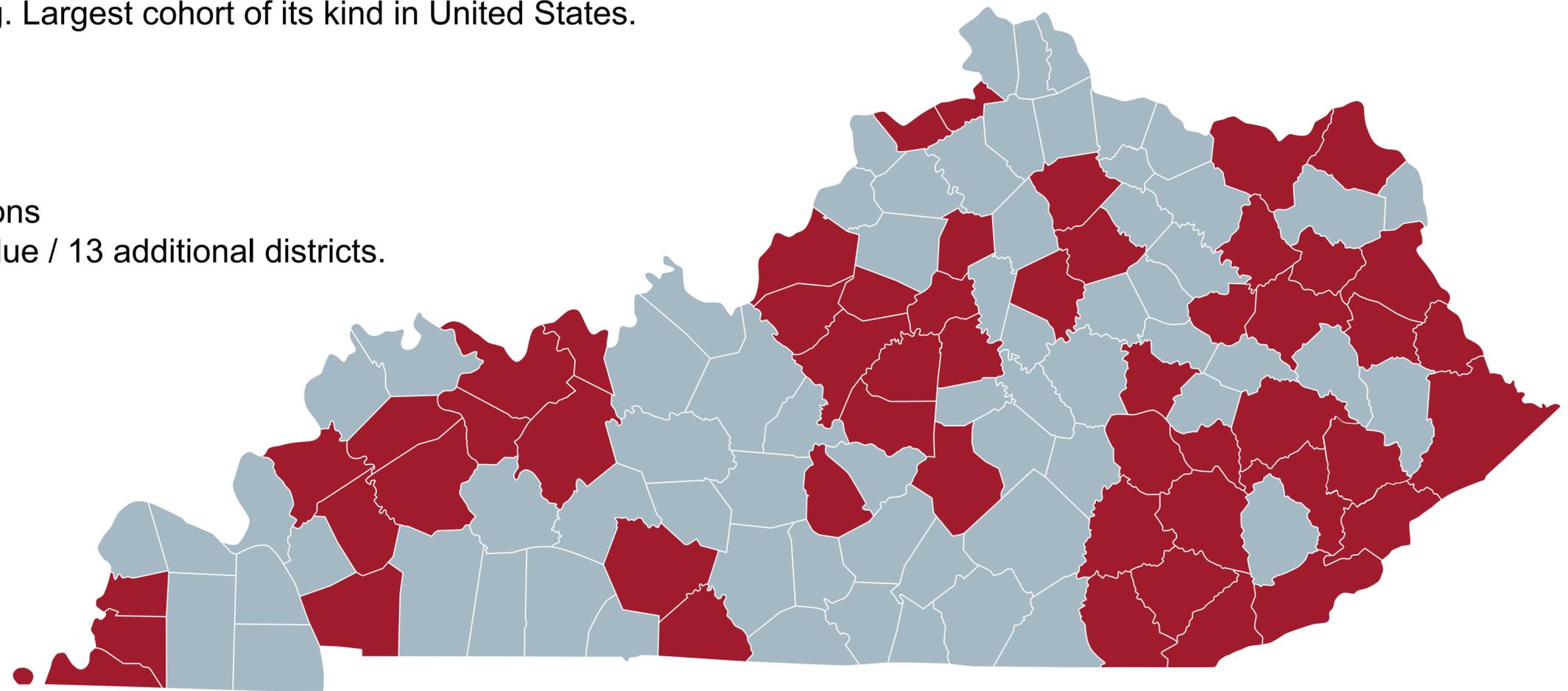
FY 25 Basic Facts:

- **K-12 workstations:** Deliver advanced curriculum and address aging technology concerns - since 2005 over 30,000 high-end student workstations to 60 of 171 currently participating districts representing 40% public K-12 students.

- **Earned, Not Given:** Through local investments improving Kentucky's IT workforce with industry-standard certifications and other training. Largest cohort of its kind in United States.

@ \$2,750,000 of \$3.5M appropriation.

- **FY 25 initial projection:** 2,069 workstations
- **FY 25 updated projection:** ~ 2,343 workstations
 - Additional 274 workstations / \$364,164 value / 13 additional districts.



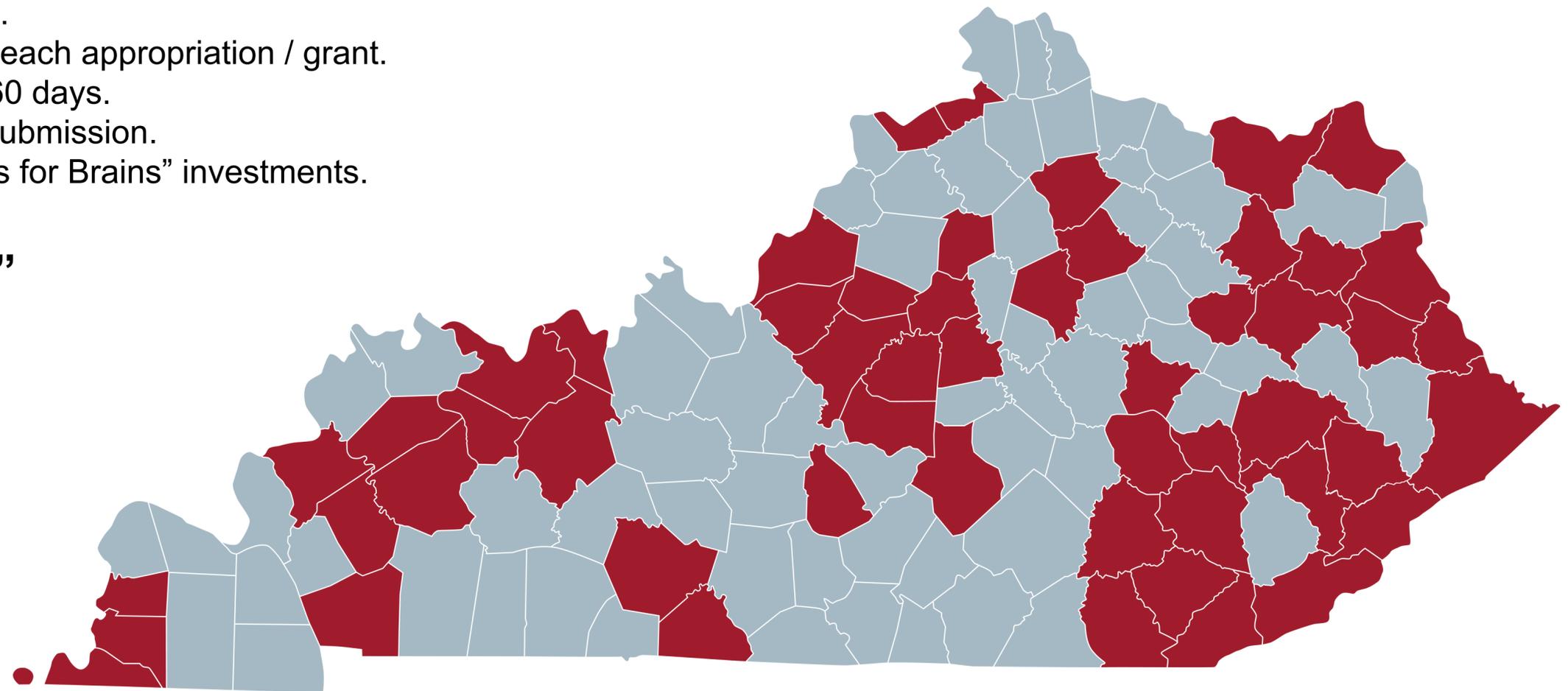
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FY 25 Basic Facts:

- **DataseamGrid:** Dual-duty strategic asset vital to Kentucky federal research funds. \$80 million to date awarded, \$200 million economic impact for the Commonwealth. Intellectual property generation allowing 90 patents total to be filed, 30 awarded.
- Critical piece of the UL Brown Cancer drug discovery program.
- Complementary to existing campus computing.
- Cumulative DataseamGrid nature builds upon each appropriation / grant.
- Currently 6.5x larger than UL HPC, 7.5x next 60 days.
- Unique piece of UL National Cancer Institute submission.
- Retention of University, Commonwealth “Bucks for Brains” investments.

“Same dollar, double duty”



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FY 25 Basic Facts:

- **Scholarships:** University of Louisville and Morehead State University-funded Dataseam Scholars programs for STEM and STEM education degrees, creating Kentucky's new workforce. Over \$3,000,000 awarded 2007-present.

FY25 Dataseam Strategic Investments:

University of Louisville

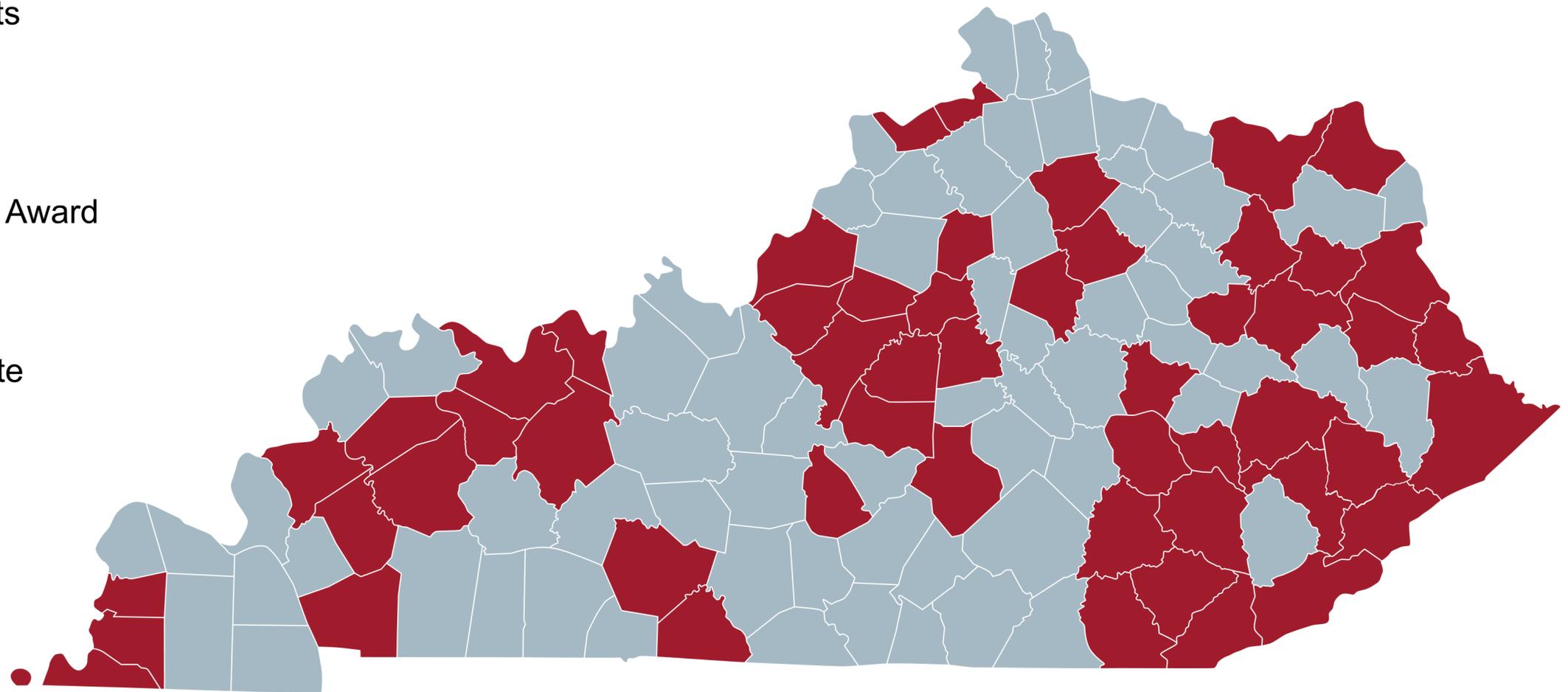
- \$150,000 incentives for UL campus-based visits
- Up to 1,000 students served.

Morehead State University

- \$300,000 incentives for MSU SSC visits.
- 40% ARC local match \$4,000,000 ARC ARISE Award
- Increase Kentucky-based aerospace pipeline

Challenger Learning Center (Hazard)

- \$150,000 second ARC MSU Space Science site



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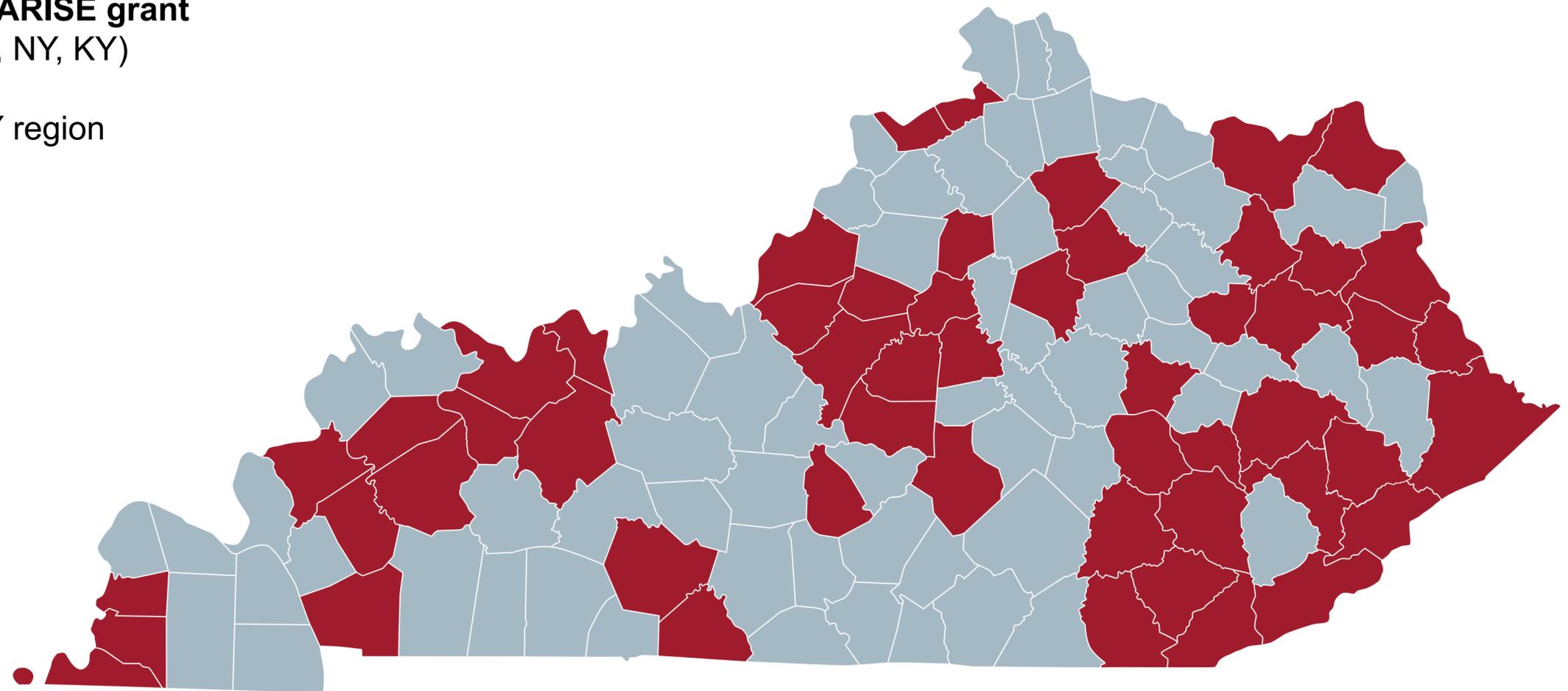
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FY 25 Basic Facts:

Looking Forward:

\$500,000 Appalachian Regional Commission ARISE grant

- Six-state workforce program (AL, MS, TN, WV, NY, KY)
- Dataseam focus adults ages 18-24
- National unemployment @ 10%, higher in eKY region
- Digital economy workforce training



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Thank You.

*The statewide Dataseam partnership is **thankful** to the Kentucky General Assembly for its leadership and support of efforts to grow innovation and commercialization building Kentucky's instructional, technology, and STEM workforces.*

Discussion/Questions?