# MARIAN UNIVERSITY ®

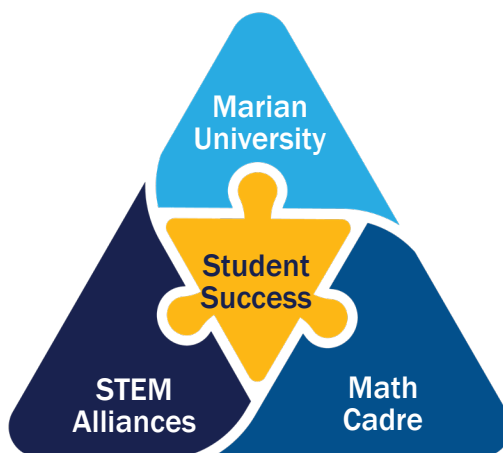## Center for Vibrant Schools



## Indy STEM Alliance

Through its Center for Vibrant Schools, **Marian University** partnered with **Project Lead The Way** to launch the **Indy STEM Alliance**, connecting central Indiana businesses and K-12 schools to **deliver hands-on STEM education and develop a STEM-ready workforce**.

## Statewide Strategy for STEM Readiness

Recognizing the need for a coordinated approach to STEM education, Marian University is developing a statewide network of 11 regional STEM alliances. Each will **unite schools, educators, community organizations, and industry partners** to prepare the next generation of thinkers, builders, and leaders for STEM careers.

To build a strong math foundation, Marian University is developing a **Math Cadre**, providing educators evidence-based **professional development, collaboration networks, and coaching**. The Math Cadre is being created in **partnership with Carnegie Learning**, a leading provider of K-12 education technology, curriculum, and professional learning solutions.



## Building on Proven Models

The Indy STEM Alliance is **modeled after the successful Kansas City STEM Alliance** and aims to replicate its impact. In Kansas City, **91%** of senior engineering students and **98%** of biomedical science **students planned to pursue STEM or healthcare careers**, with most intending to continue their education in the region.

The Math Cadre will follow a similar framework implemented in the Indiana Literacy Cadre, where **participating schools saw a 12x increase in IREAD scores** compared to their peers in non-Cadre schools. Marian University is **building a team of STEM experts** to support this transformative work.

Marian University, in partnership with the **National Center on Education and the Economy**, will support schools in adopting **mastery-based learning** — a model that complements targeted STEM efforts and promotes success across all subjects for both students and educators.

# Proposed Regional STEM Alliances

Indy

Gary

South Bend
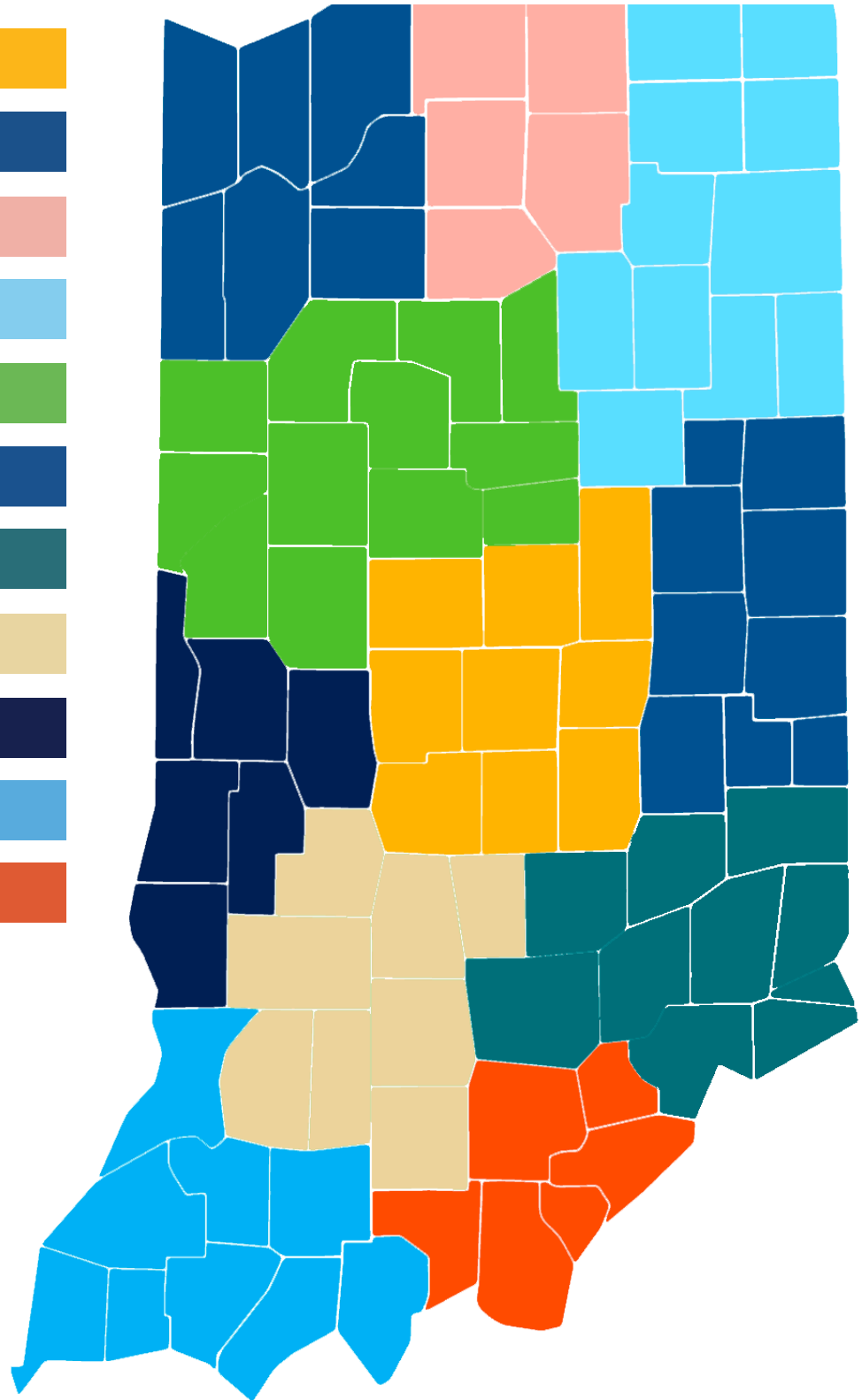
Fort Wayne

Lafayette

Muncie

Columbus

Bloomington

Terre Haute

Evansville

Jeffersonville



The proposed regional STEM alliances are organized around anchor institutions that can lead efforts in each district. While the Indy STEM Alliance serves as the central hub, each regional alliance will tailor its approach to the specific economic and workforce needs of its community.