


Feeding, fueling, and healing the world



**North Carolina
Biotechnology Center**

NCBIOTECH.ORG



How do we continue
to feed, fuel and heal
the global population?



Biotechnology

Biotechnology uses living systems and organisms to solve problems and create transformational products.



Vaccines that prevent disease.



Spider silk vests that

protect battlefield soldiers.



Crops that thrive in drought.

Industry Facts

600+

bioscience companies



Industry Facts

61,000

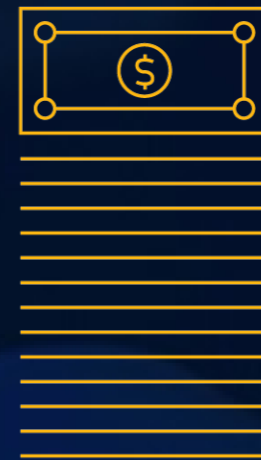
jobs



Industry Facts

\$81K

annual salary



Industry Facts

2,100  *life science*
— *support companies*

Industry Facts

\$73 B

 Economic activity



Industry Facts

\$1.7B

state and local revenues



FILL INDUSTRY NEED



**COMPANY NEEDS
TO EXPAND**



**UNIVERSITY RESEARCH
GOING TO MARKET**

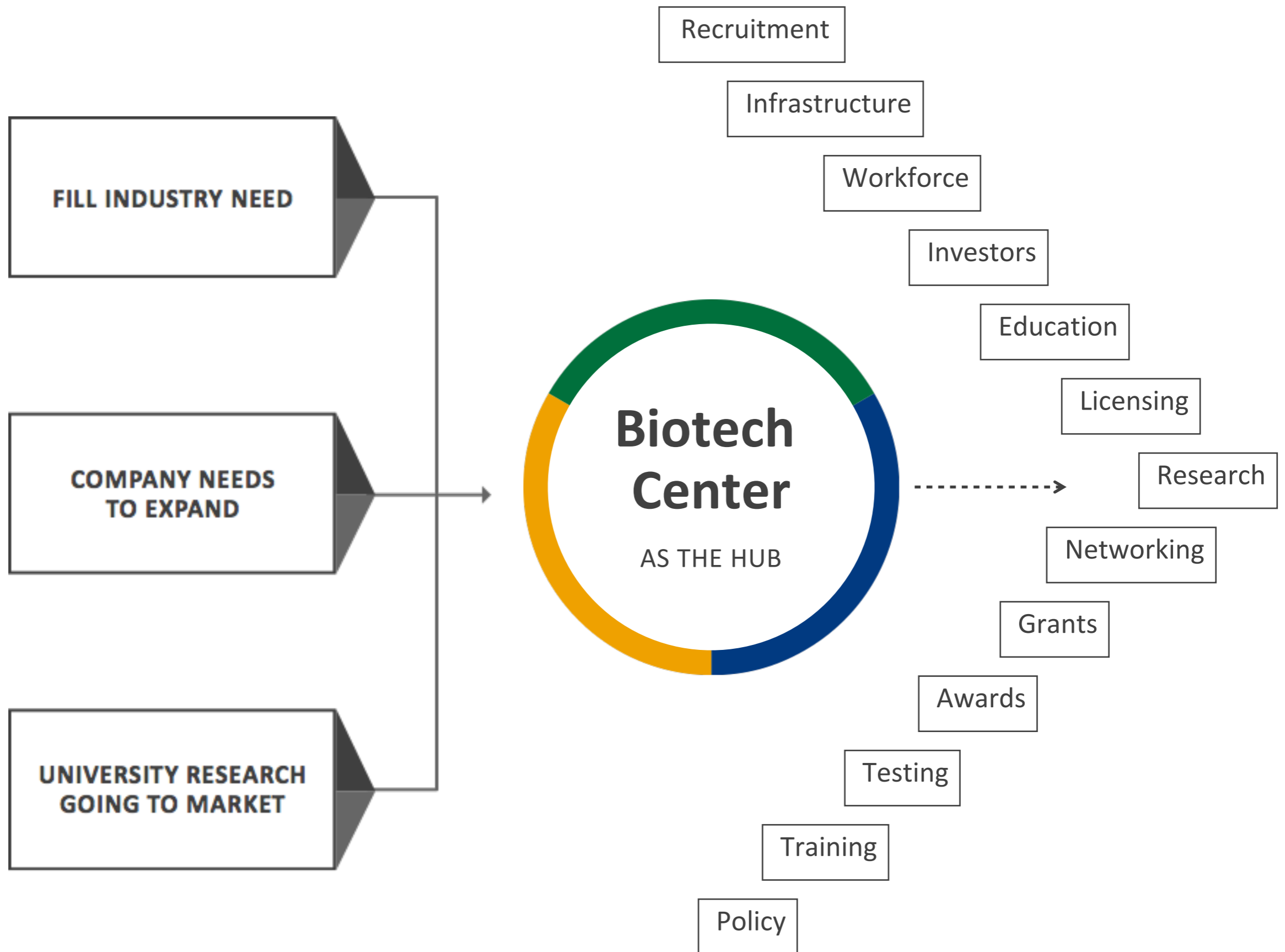


IP Support Investors
Grants Angel Funding
Connections
\$2.6B Protection **Jobs**
Research
Education
Workforce
Resources Business Plan Advice

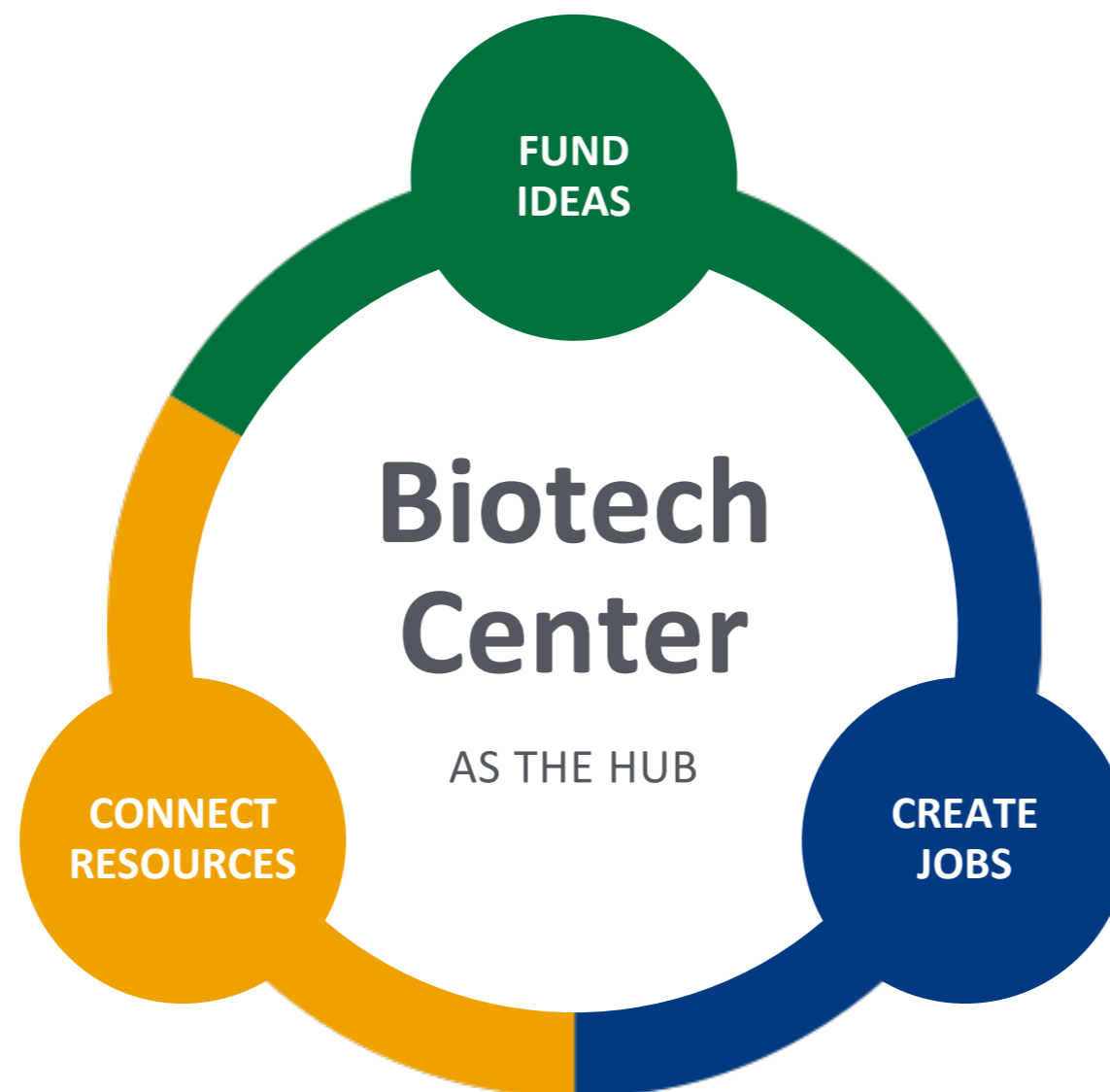
Venture Investment **Regulatory Framework**
Company Partnerships
10-15 years **Proof of Concept**
Research

Funding GMP **High Cost** Risk Framework
Hands-on Training Long timeline

Infrastructure **Risk Profile**
Power Custom Training



WAYS WE SERVE NORTH CAROLINA

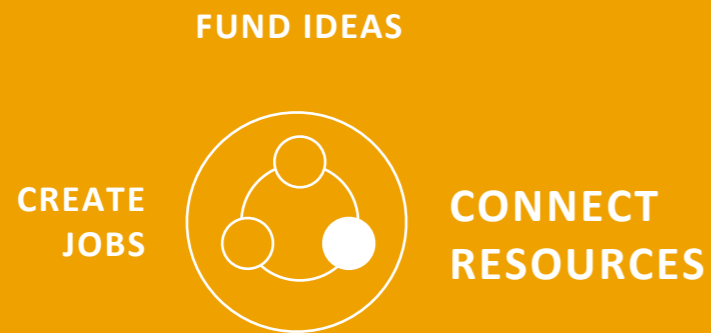


FUND IDEAS



We work to eliminate
funding gaps.

Grants stimulate innovation
Loans fund company growth

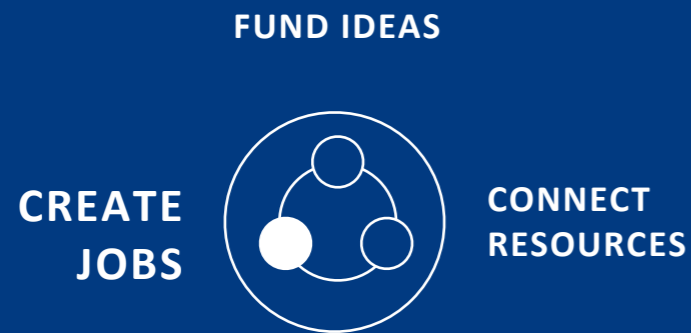


We connect industry,
academia and government
to get things done.

10 years

12,700 events

267,000 participants




Ideas, funding, and
connections create jobs.

6 years

36 projects

2,522 announced jobs

Success Story: Mid-Atlantic Feed Grain Coalition

A photograph of a large indoor pig farming facility. Numerous white pigs are housed in long, narrow metal pens. The facility has a high ceiling with exposed wooden beams and several windows. A semi-transparent white box is overlaid on the center of the image, containing text.

CHALLENGE \$6B meat animal industry.
Imports about two-thirds of feed.
Costs threatened business.

Success Story: Mid-Atlantic Feed Grain Coalition

NCBIOTECH'S ROLE

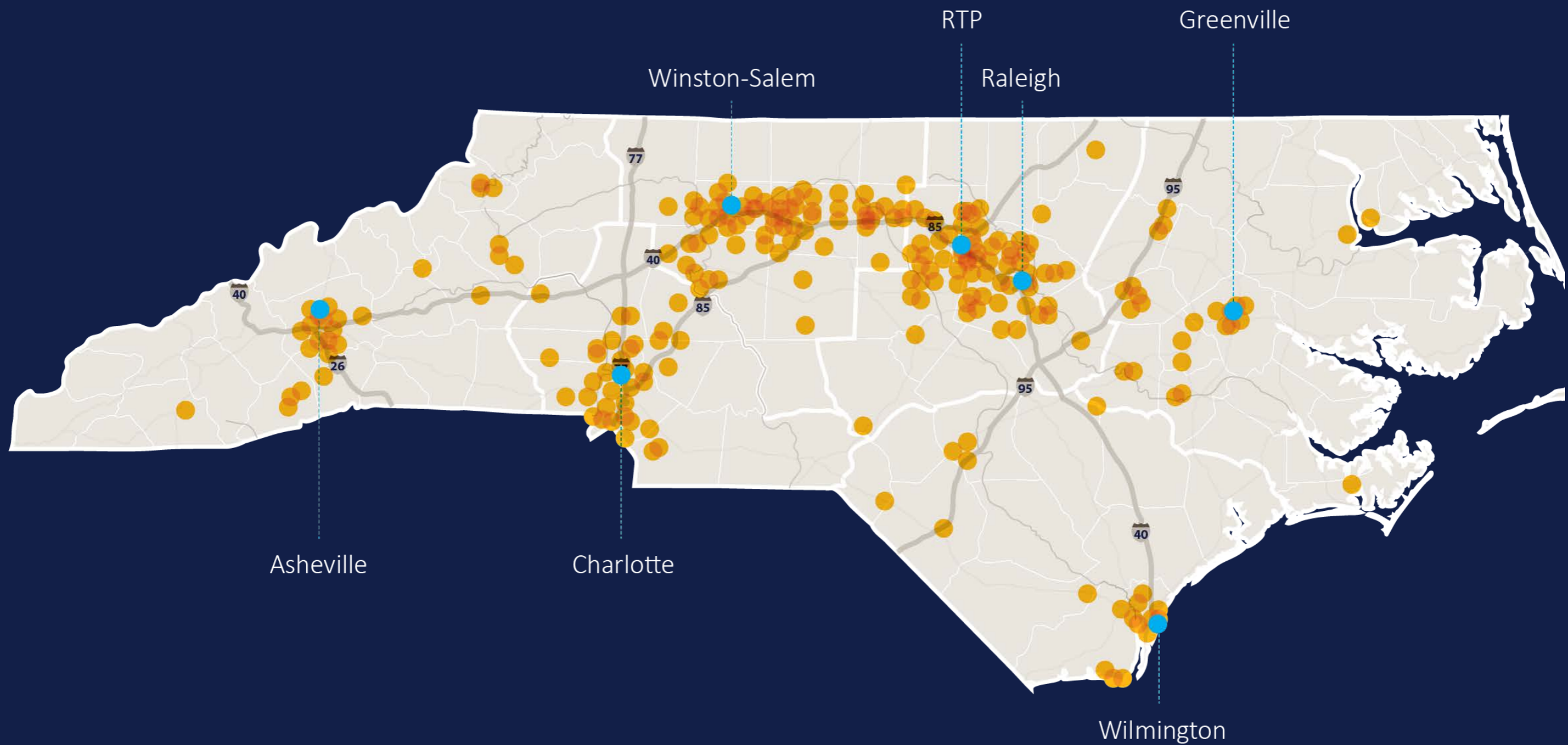
The Ag Biotech Initiative
connected university researchers.

They identified grain sorghum.

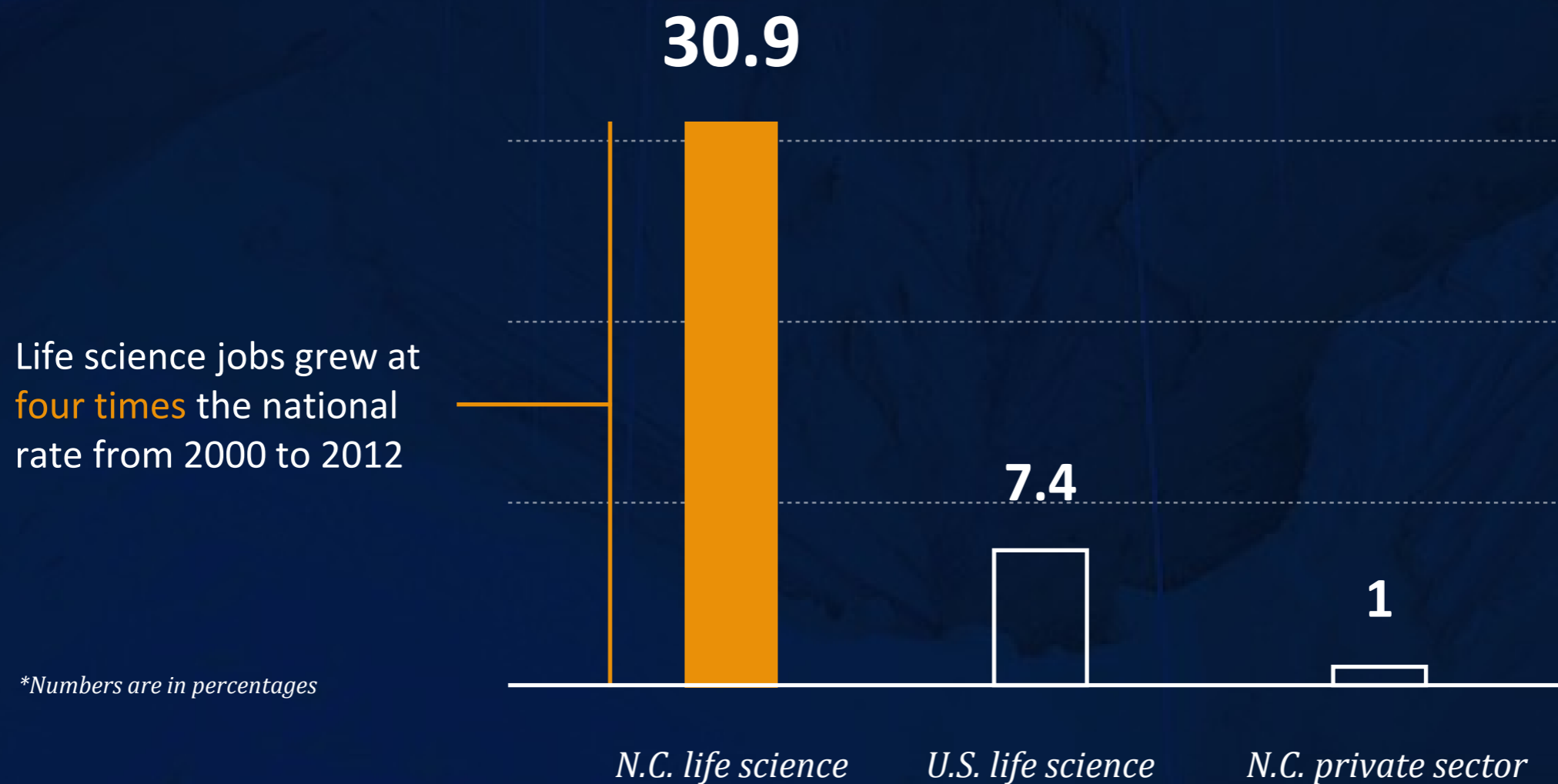
Success Story: Mid-Atlantic Feed Grain Coalition

IMPACT Sorghum production increased 5X.
Industry saved at least \$30M.

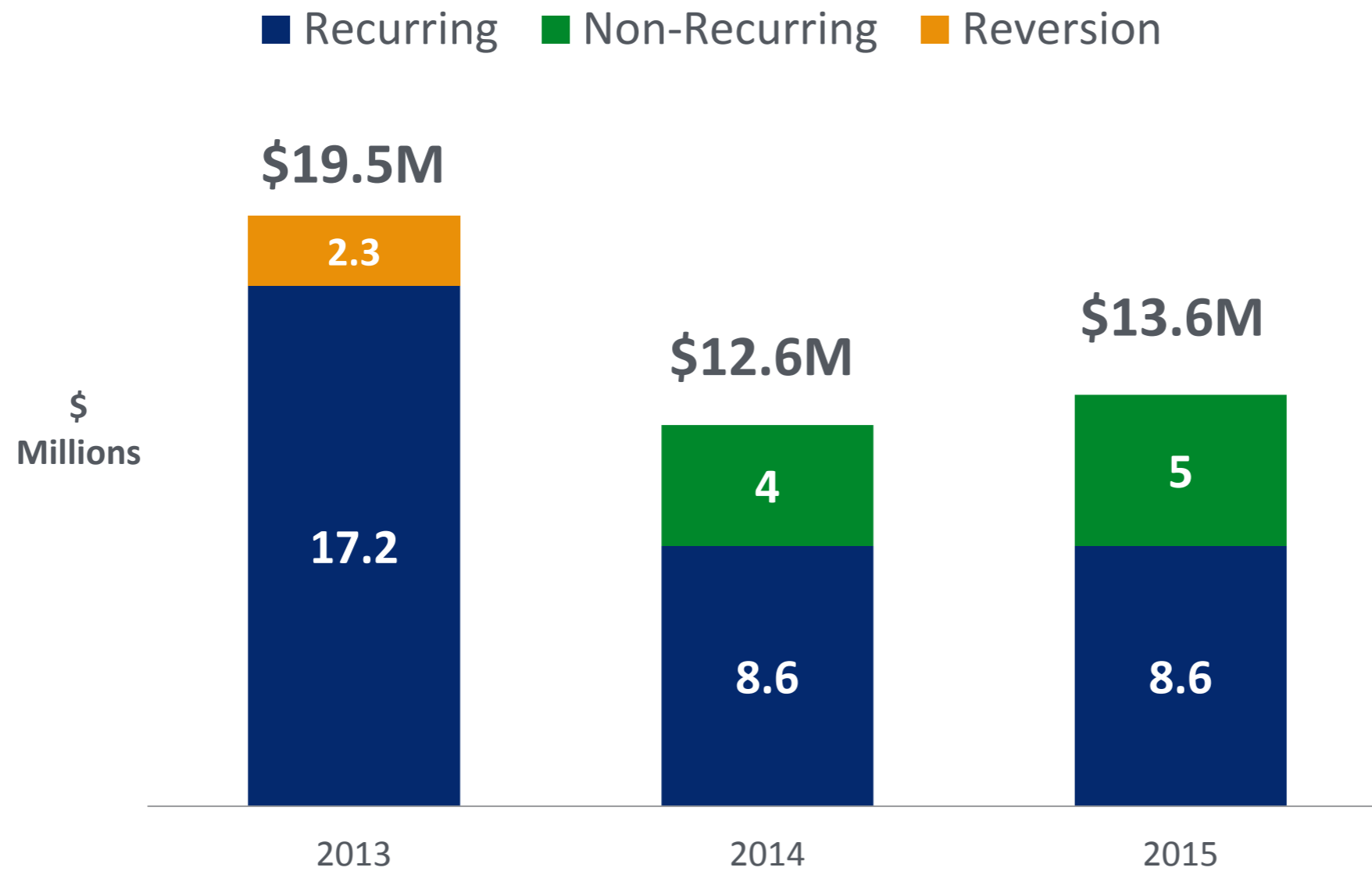
Statewide impact



North Carolina is one of the most competitive and fastest growing biotechnology clusters.



Three-Year Budget Data



2015: \$1 Million Increase

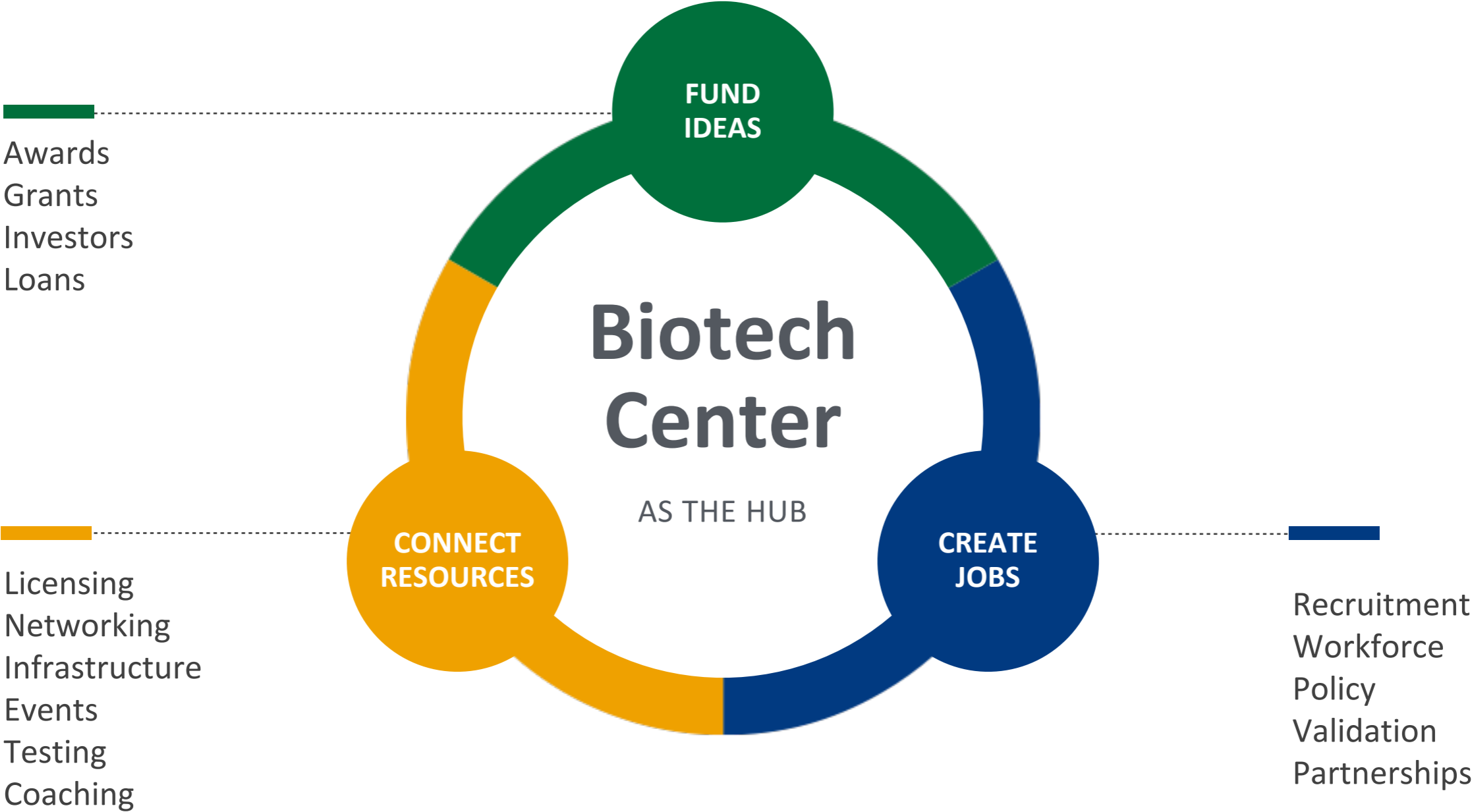
Biodefense \$750K

- Issued loans and grants to advance technology
 - Dignify Therapeutics and Keranetics
- Extend N.C. business relationships with DoD, prime contractors
- Work with partners to advance sector

Ag Biotech \$250K

- Biotech Crop Commercialization Center
- Ag Biotech Summit and similar events
- Industry in the Classroom

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Our commitment is for
North Carolina to lead the way.



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