

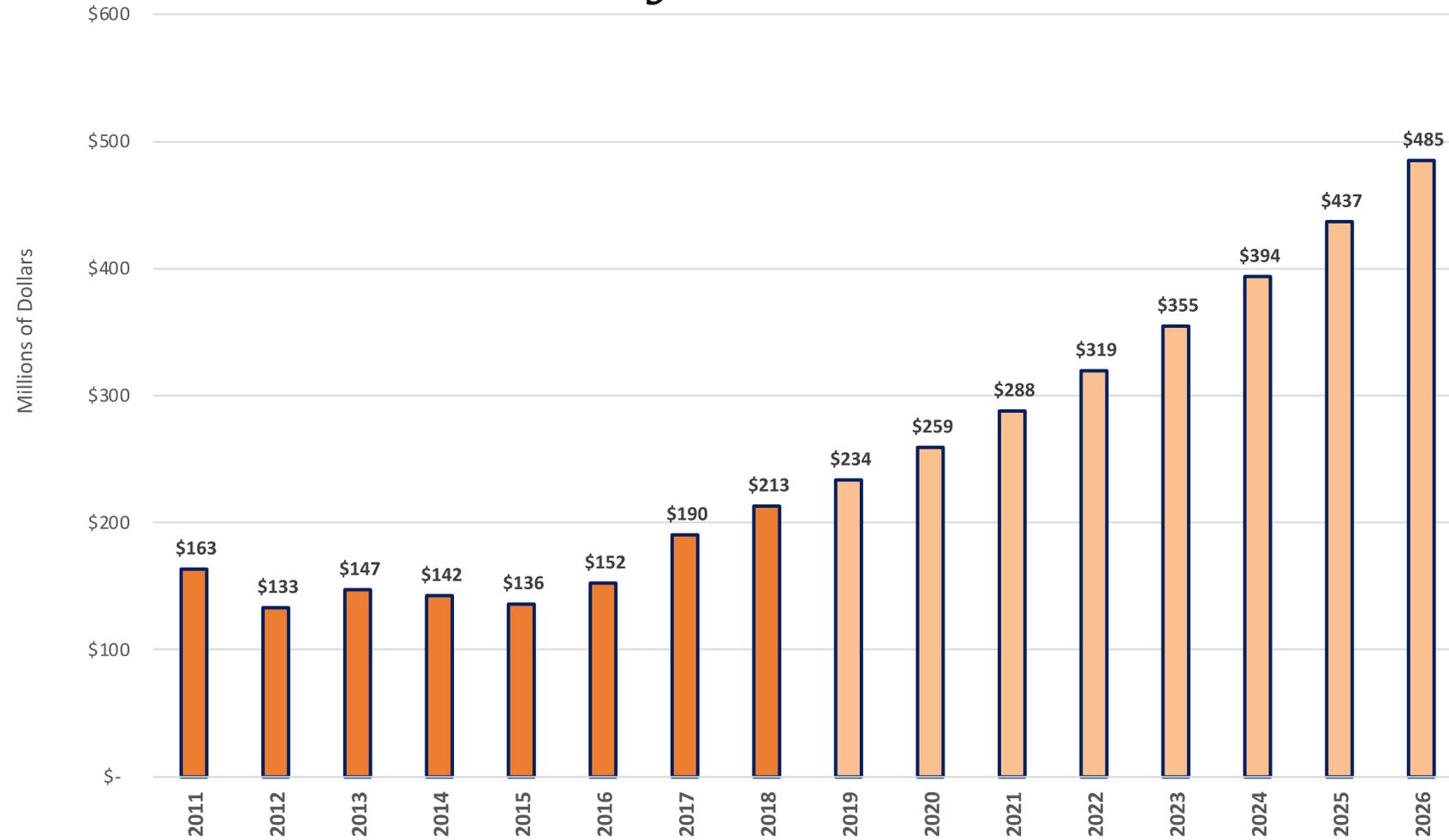


Commitments for Lasting Change and a Better World

A Research Vision for Auburn University

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VP for Research & Economic Development
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FY 2011 through FY 2018 with estimates for FY 2019 thru FY 2026



The Culture Shift

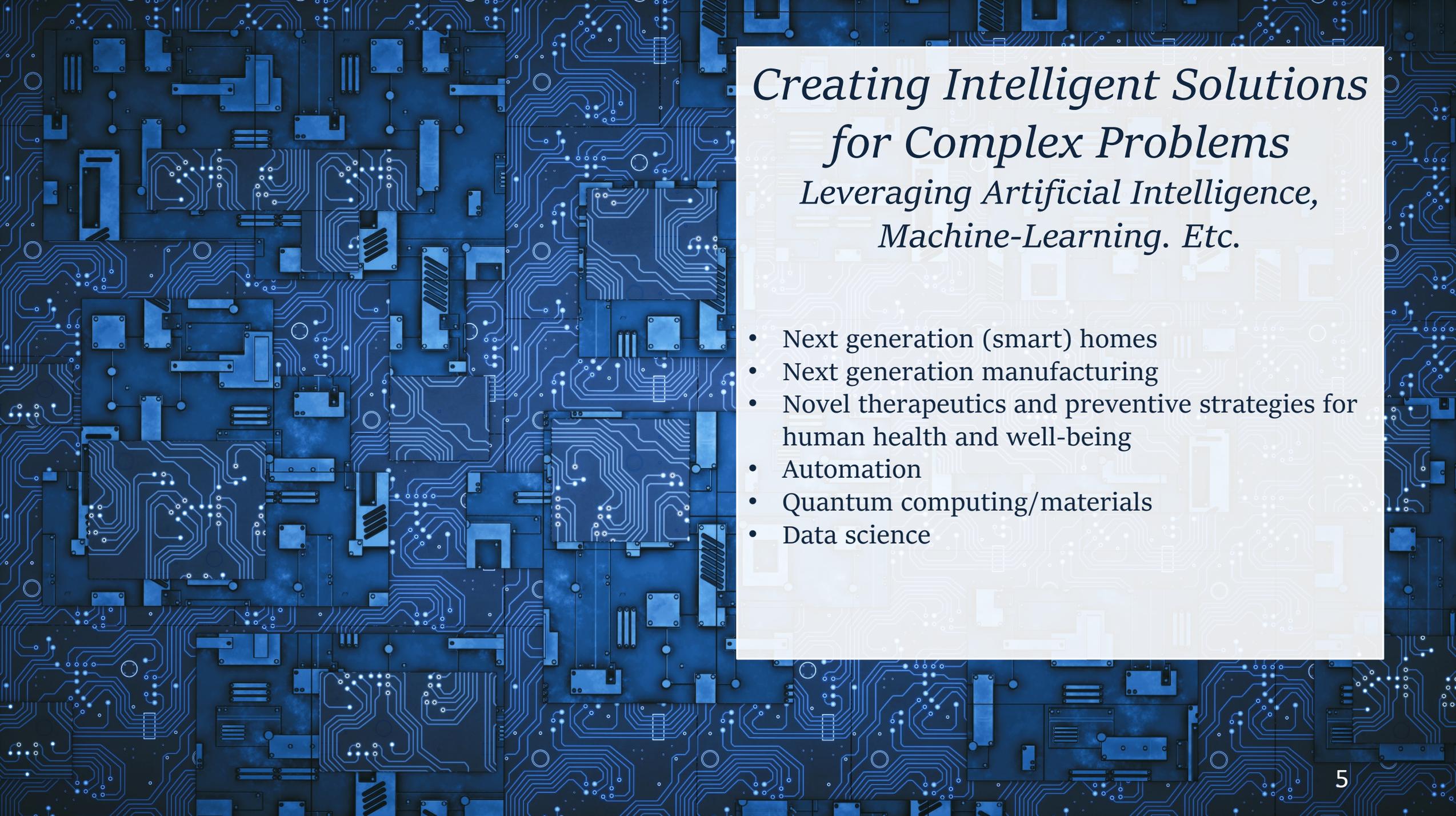
- Strategic investments in four broad areas that leverage our expertise and solve complex societal challenges – *problem-solving research*



Health and Well-being: Improving Health & Healthcare in Alabama and Across the Nation

- Next generation therapeutics/preventives
- Healthcare access/disparities
- Chronic diseases
- Precision medicine
- Infectious (e.g., zoonotic) and emerging diseases
- Healthcare quality and cost





*Creating Intelligent Solutions
for Complex Problems
Leveraging Artificial Intelligence,
Machine-Learning. Etc.*

- Next generation (smart) homes
- Next generation manufacturing
- Novel therapeutics and preventive strategies for human health and well-being
- Automation
- Quantum computing/materials
- Data science



Creating A More Secure World

- Leveraging existing game-changers:
 - McCrary Institute for Cyber and Critical Infrastructure Security
 - Center for Cyber and Homeland Security
 - CPS program
- Defining the next generation of security tools and implementation strategies



Building Resilient Communities and Societies

- Environmental sustainability, including coastal ocean science
- Sustainable food/water supply and delivery
- Energy independence, transmission, and resilience
- Affordable housing



AU Research on the Rise

- Immediate Goal - *double annual research expenditures to \$450+ million in six years*
- Approach - *invest in theme/problem-based projects that leverage our research expertise*
- Lasting Outcomes - *enhance our research profile and dramatically scale revenues as innovations move to market; most importantly, leverage our research to solve challenging societal problems*



Questions?