

RESEARCH AND SCHOLARSHIP

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Vice President of Research



Expand our scholarship, creative endeavors, and research across the full range of disciplines to focus on the most important challenges of the Commonwealth, our nation, and the world.



In 2014, the Board of Trustees defined Principles of the Research Enterprise (CR1) and directed the President to take steps to achieve the following goals:

1. Align resource commitments to optimize efficiency and facilitate faculty, student and staff success
2. Recruit and retain world-class scholars and research teams
3. Strengthen the commitment to interdisciplinary exploration
4. Confirm and detail the critical need for additional research infrastructure

The initiative and metrics for Research and Scholarship directly address CR1.

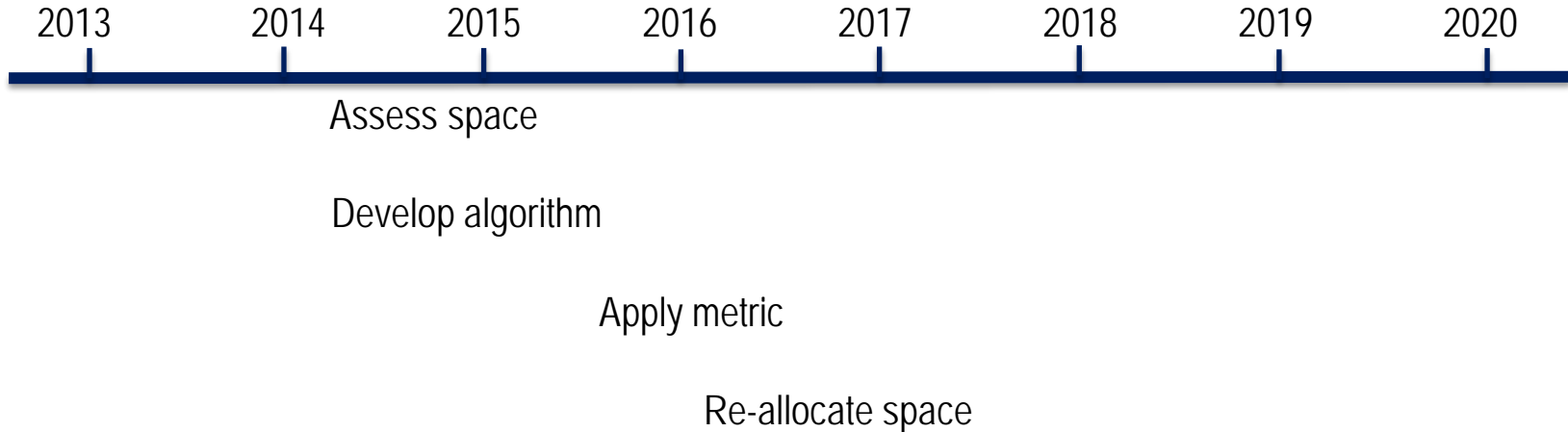


- I. Invest in UK's existing strengths and areas of growth in selected focus areas that benefit and enrich the lives of the citizens of the Commonwealth and beyond.
- II. Recruit and retain outstanding faculty, staff and students that support our research and scholarship across the range of disciplines at the University.
- III. Improve the quality of the research infrastructure across campus.
- IV. Strengthen engagement efforts and translation of research and creative work for the benefit of the Commonwealth of Kentucky, the nation and the world.



Efficient use of research space

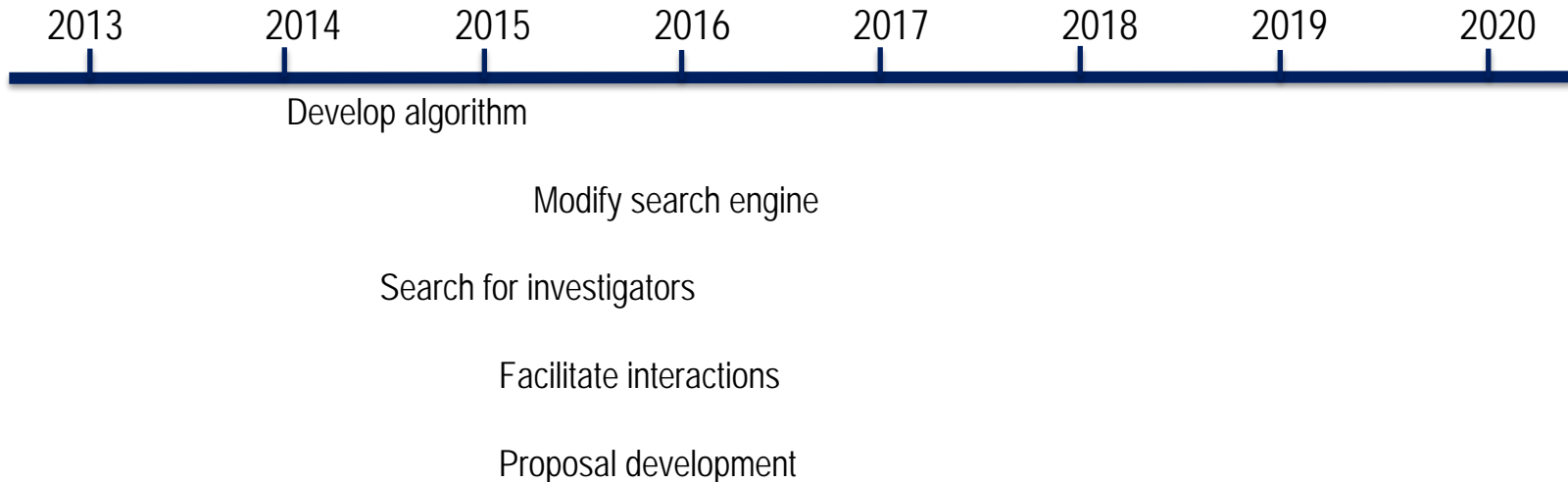
- a. Assess research space according to discipline/quality
- b. Develop a space algorithm based on these factors
- c. Validate and apply to research space across campus
- d. Re-allocate space in an interdisciplinary manner





Data mining to improve grant submissions

- Identify areas of research strength and align investigators with agency funding opportunities
- Develop teams for large funding mechanisms
- Facilitate investigator initiated or administratively supported interactions
- Provide proposal development support

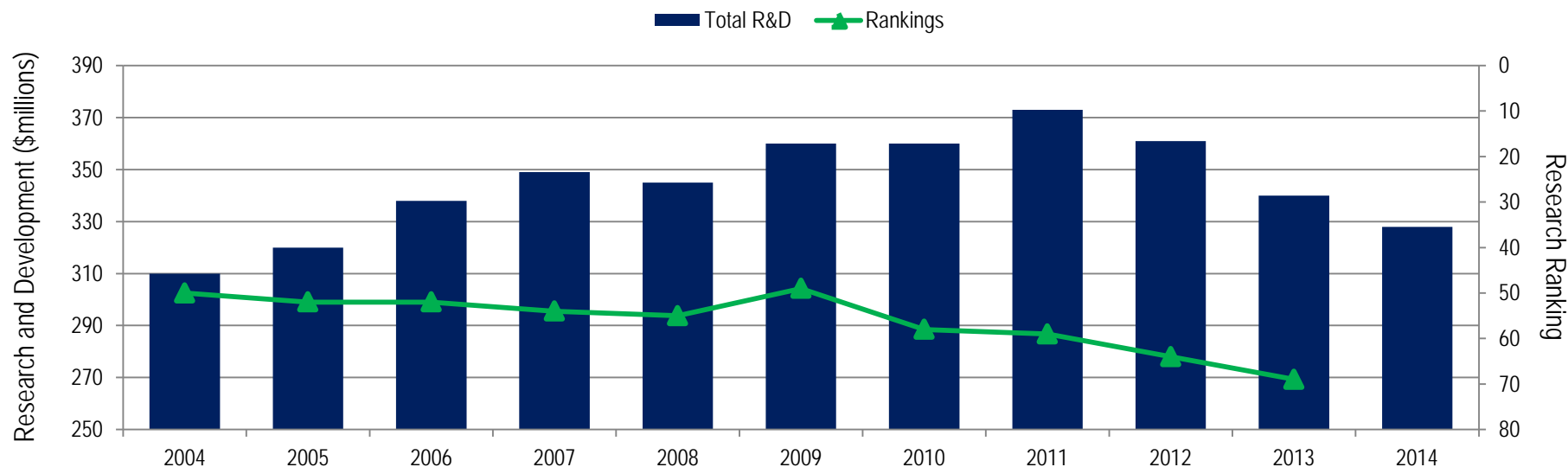


Research and Scholarship

Research and Development Expenditures



Research and Development (R&D) Expenditures determine our national ranking as a research intensive, land-grant institution.



Research and Scholarship

Doctoral Program Rankings



Rankings of doctoral programs by the National Research Council (NRC) define the quality of research/creative work by graduate students across the range of disciplines.

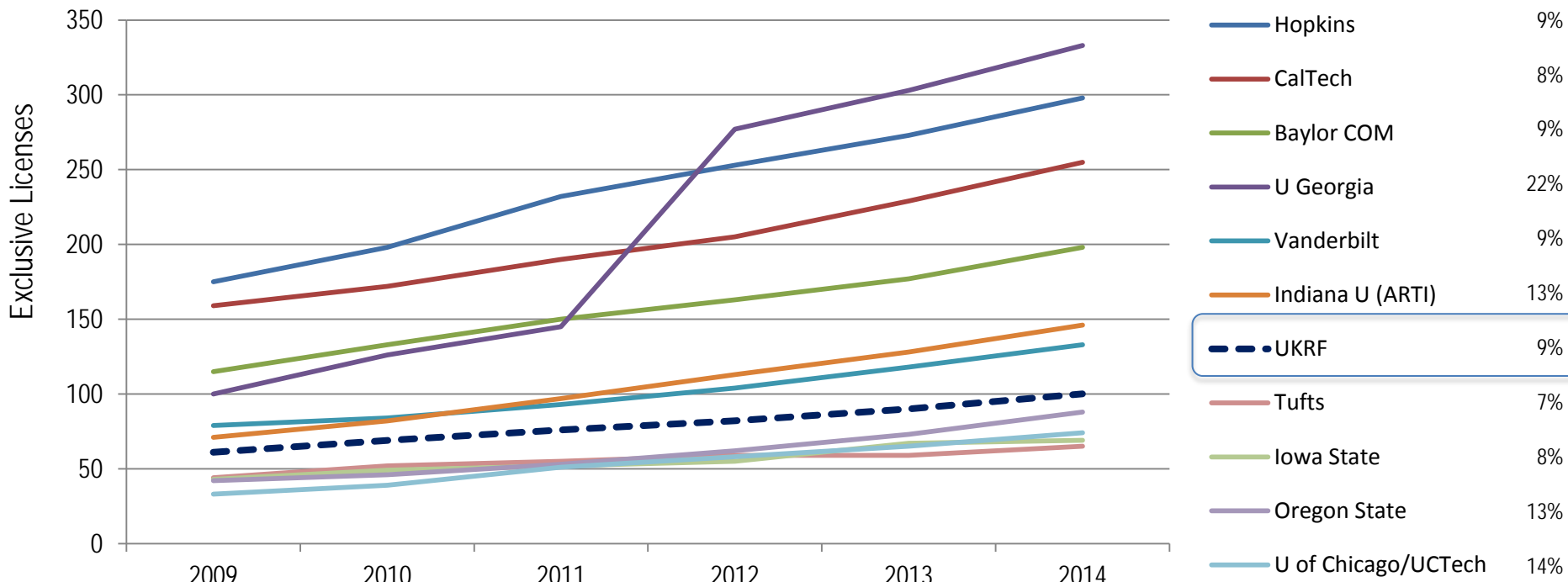
UK Doctoral programs that were within the top 25% (2006):

- English
- Hispanic Studies
- Public Administration
- Entomology
- Nutritional Sciences
- Nursing

Research and Scholarship Exclusive Licenses



Tracking number of licenses over time.



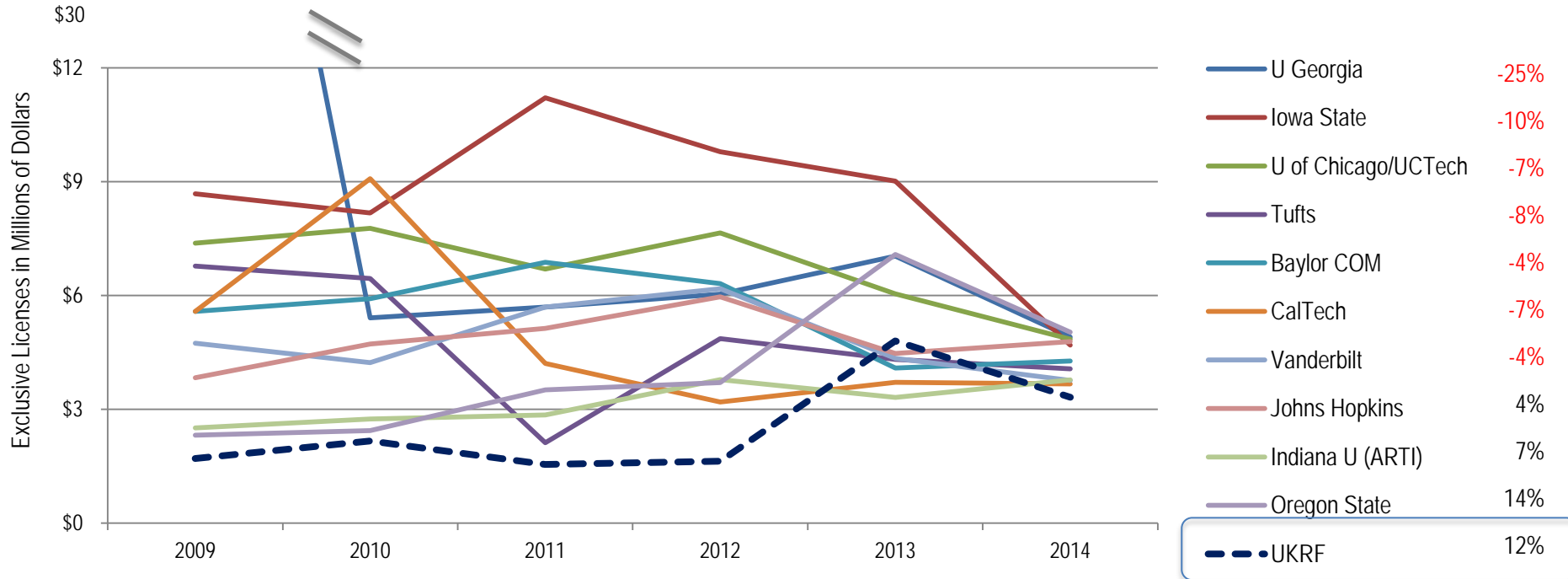
Note 1: Compounded Annual Growth Rate

Research and Scholarship Licensing Income



Licensing income is the outcome of intellectual capital and economic development of our faculty, students and staff.

CAGR¹



Note 1: Compounded Annual Growth Rate



1. Total Research and Development expenditures, according to source
 - NSF 2013 Total Research Expenditures
 - NSF 2013 Federal Research Expenditures
2. Ranking of Doctoral Programs
 - Ranking of Doctoral programs by discipline
3. Space (\$/square foot), funding according to source (e.g., grants, endowments)
 - \$/square foot weighted by age and renovation status
4. License growth and income generation
 - Licenses
 - License Income

Research and Scholarship

Metrics | Baseline and Target Values



| Metrics | Definition | Baseline | 2020 Target |
|--------------------------------------|---|---------------|---------------|
| Total R&D expenditures, by source | NSF 2013 Total Research Expenditures | \$340 million | \$364 million |
| | NSF 2013 Federal Research Expenditures | \$150 million | \$175 million |

The Compound Average Growth Rate (CAGR) of benchmark institutions within 10 rankings above or below UK = 1.9%

Research and Scholarship

Metrics | Baseline and Target Values



| Metrics | Definition | Baseline | 2020 Target |
|------------------------------|---|---|---|
| Ranking of Doctoral Programs | Doctoral program ranking, by discipline | 6 doctoral programs within top quartile | Ranking within top quartile by discipline |

Research and Scholarship

Metrics | Baseline and Target Values



| Metrics | Definition | Baseline Data | 2020 Target |
|--|--|---|---|
| Space (\$/square foot), funding according to source (grants, endowments) | \$/square foot weighted by age and renovation status | To be defined as part of rate negotiation (12/15) | 20% increase of space that reaches \$300/square foot metric (new research laboratory space) factored for type of research |

Research and Scholarship

Metrics | Baseline and Target Values



| Metrics | Definition | Baseline | 2020 Target |
|--------------------------------------|----------------|--------------------|----------------------------|
| License growth and income generation | Licenses | 100 (2014 data) | 177 (10% CAGR) |
| | License Income | \$3.3 million | \$3.5 million (1% CAGR) |