



**DRI**

Desert Research Institute

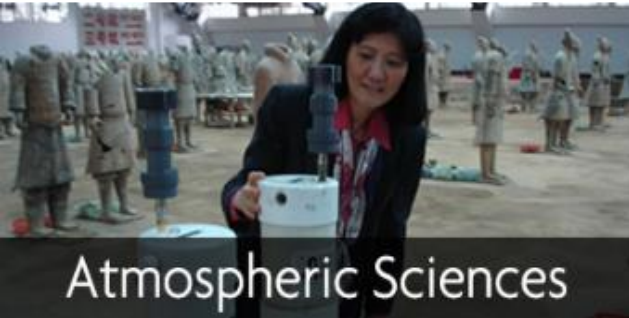
# Performance Metrics

Dr. Robert Gagosian - March 2017



# People are our Value. Knowledge is our Product

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# New Strategic Directions – Why?

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- ① **Federal Agency Research Funding down 15% since 2008**

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- ① **State Support for DRI down 24% since 2008**

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- ① **DRI Federal Earmarks down from 29% in 2008 to only 4% in 2015**

# New Strategic Directions – Criteria

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## Reputation and Mission are built on:

### ① World Class Environmental Institution

- Basic and Applied Research
- Scientific Services
- Application of New Technologies

### ② Significant Education Role

- Graduate
- STEM, K-12

# New Strategic Directions

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- 1. Strengthen Our Efforts with Federal Research Agencies**

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- 2. Increase Corporate/Public Partnerships**

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- 3. Expand Individual and Foundation Philanthropic Efforts**

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- 4. Enhance NSHE Collaborations**

# FY15 National Rank

**Federally  
Financed R&D  
Expenditures in  
the Atmospheric  
and Earth  
Sciences**

**398 Peer  
Institutions**

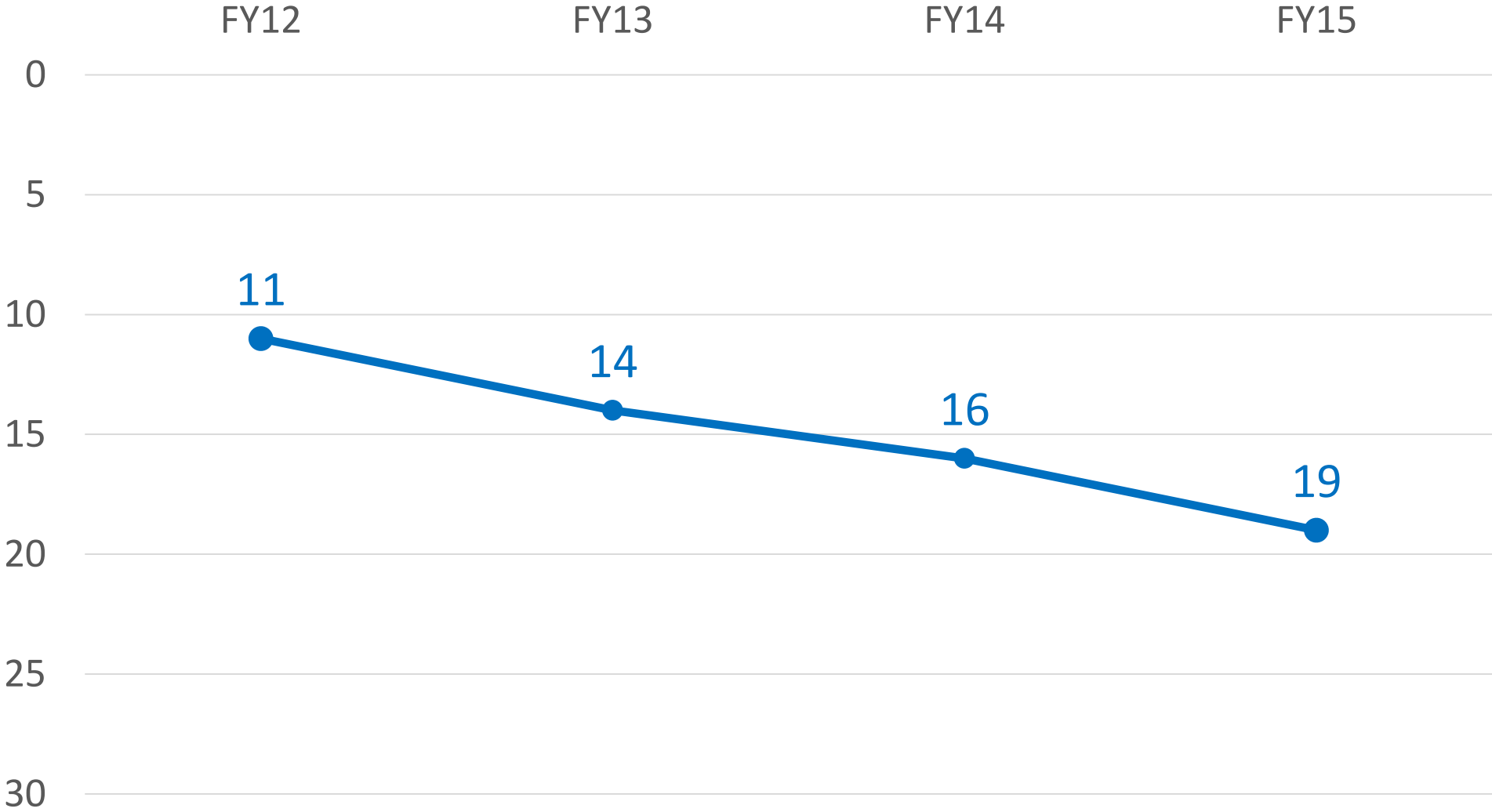
Atmospheric + Earth Sciences Rank	Peer Institutions
2	Colorado State U.
4	Columbia U.
12	U. California, San Diego
13	CalTech
15	MIT
18	UCLA
<b>19</b>	<b>Desert Research Institute</b>
24	U. Arizona
25	Johns Hopkins U.
30	Oregon State U.
31	U. Utah
55	U. New Mexico

Data Source: NSF HERD  
Survey FY15

Ranking reflects the  
longstanding methodology  
DRI has used to submit the  
data.

# DRI National Rank

## Federally Financed R&D Expenditures in the Atmospheric and Earth Sciences



Data Source: NSF HERD Survey FY15

Ranking reflects the longstanding methodology DRI has used to submit the data.

# Reasons for National Rank Change

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FY12 – FY15

- ① **Loss of Federal Earmarks** – 20% to 4% of total budget

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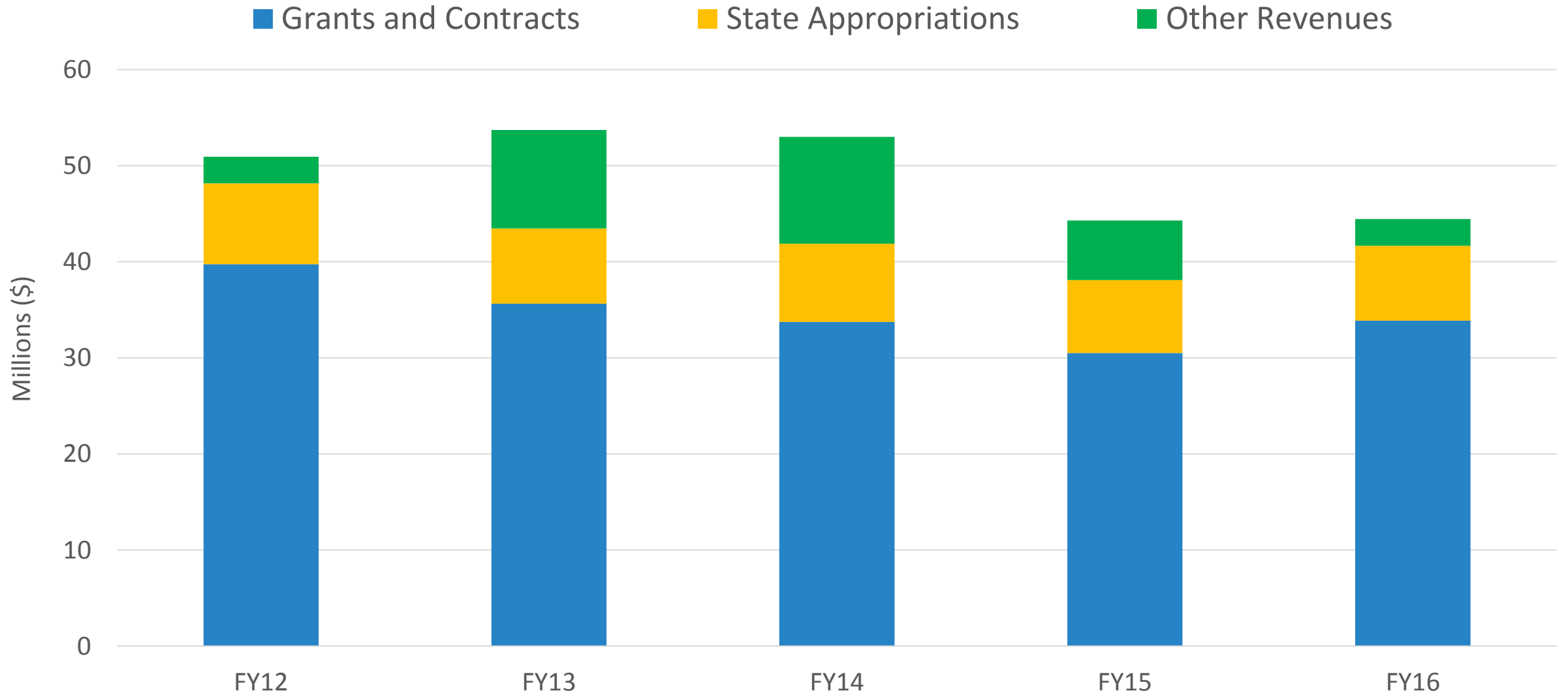
- ① **Loss of State Support** – Down 5% in dollars

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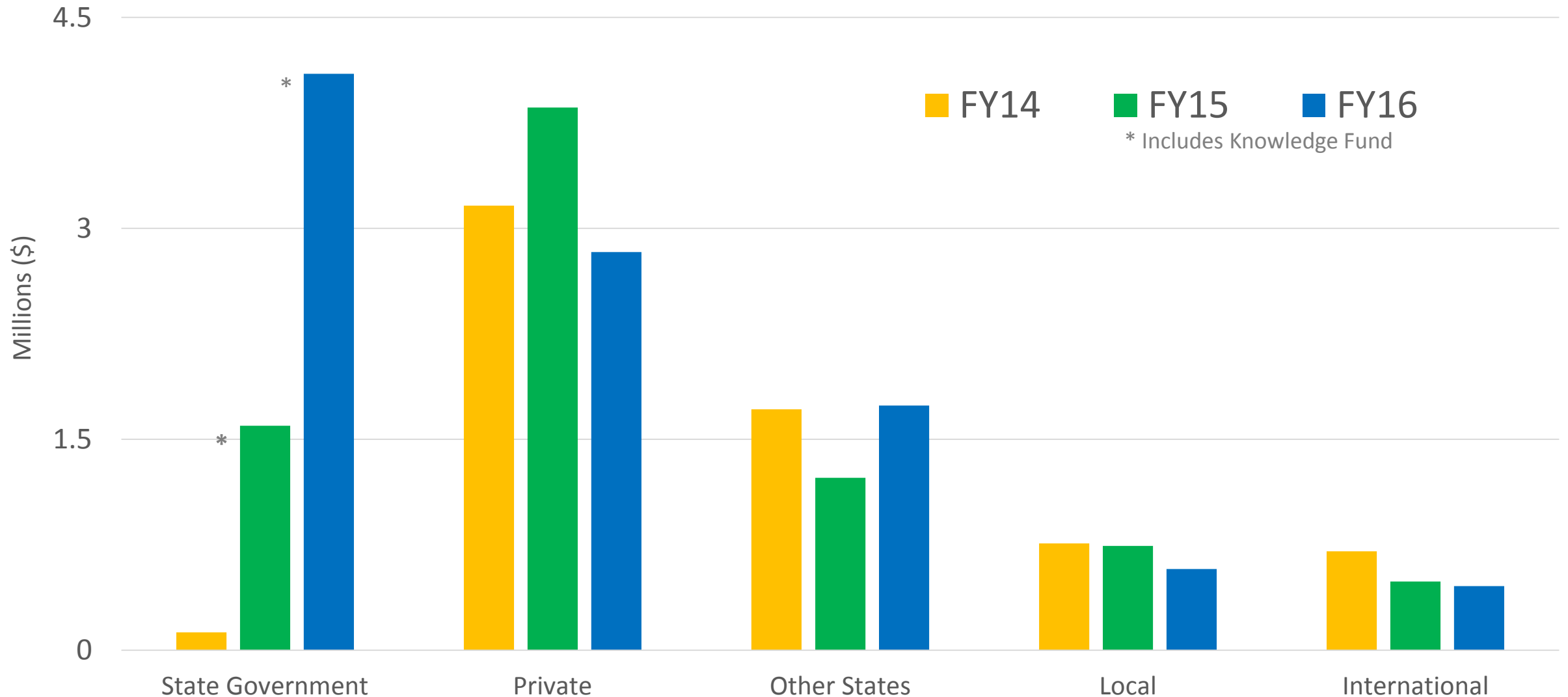
- ① **Loss of Research Faculty** – 163 to 151 (down 7%)



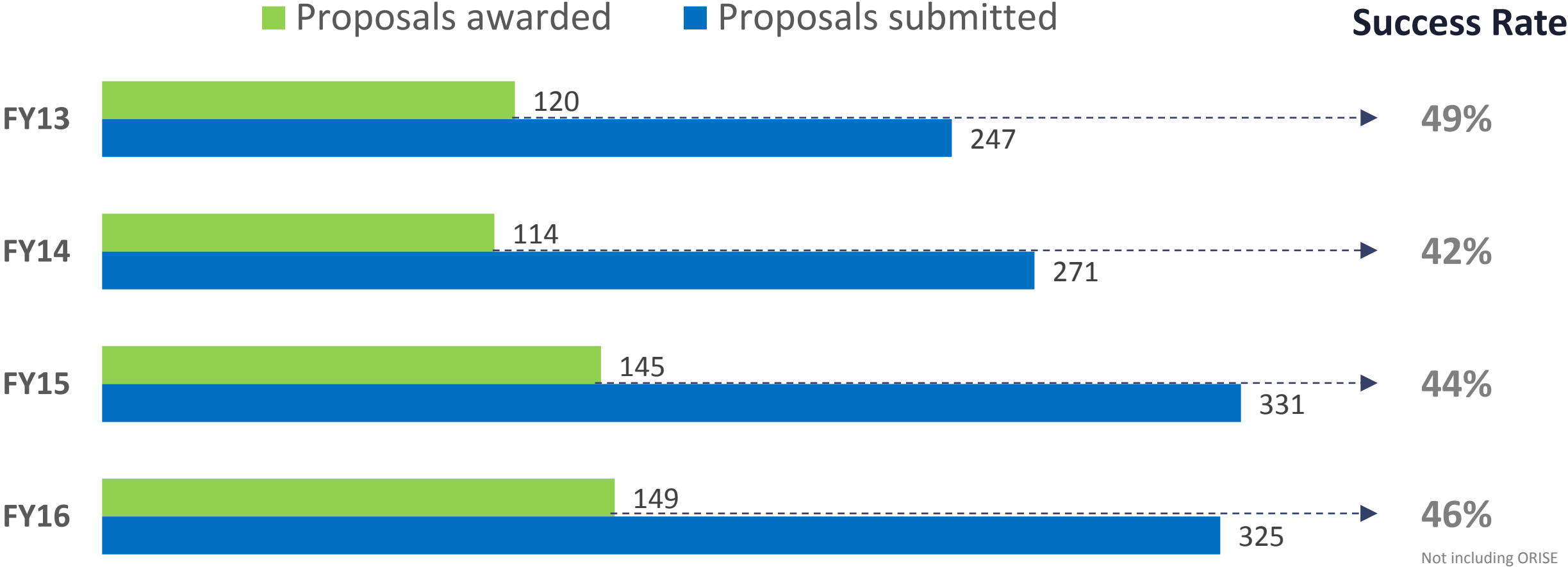
# DRI Annual Revenue by Source



# Non-Federal Grants and Contracts by Source

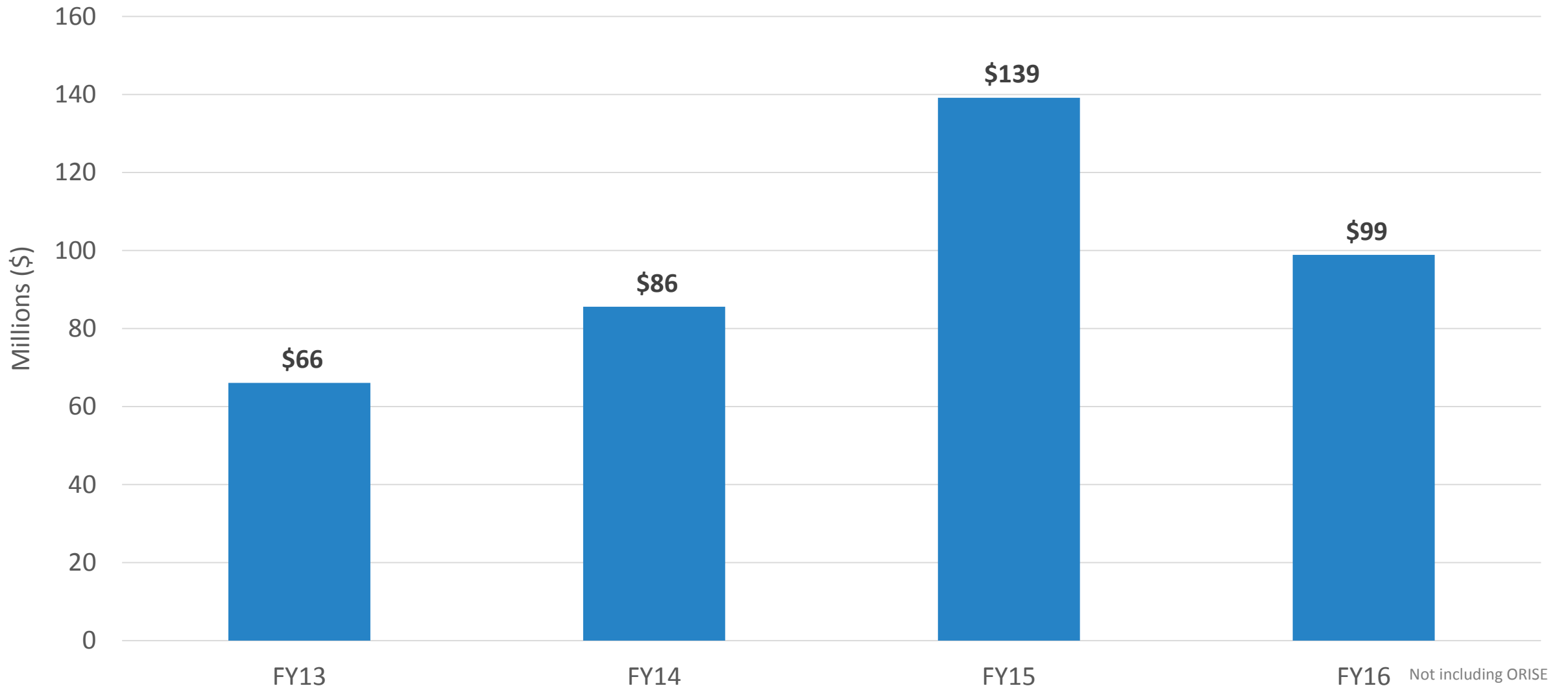


# Research Proposal Success

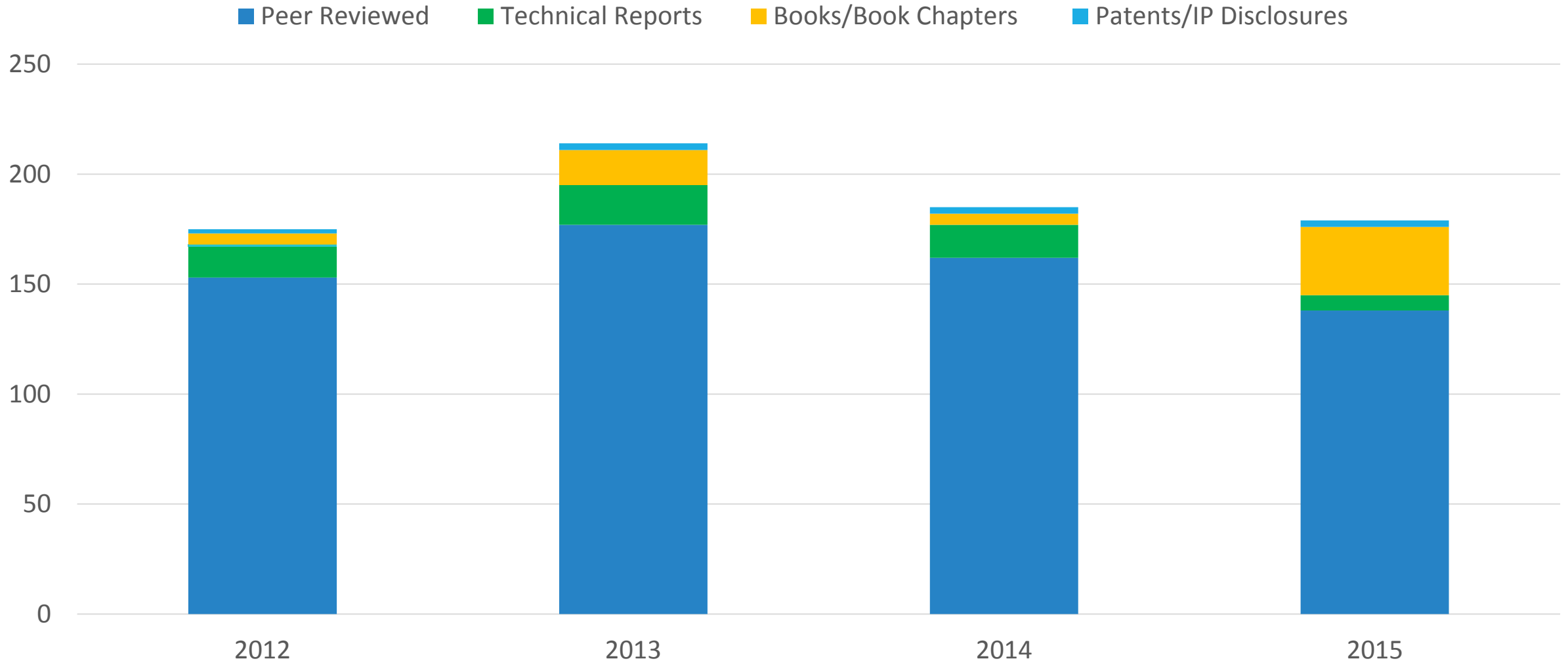


Not including ORISE

# Research Proposals – Amount Requested



# Faculty Publications





# Our People

## Five Year Diversity Trend – Research Personnel (% of Total)

	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>
<b>Male</b>	<b>63</b>	<b>63</b>	<b>64</b>	<b>64</b>	<b>65</b>
<b>Female</b>	<b>37</b>	<b>37</b>	<b>36</b>	<b>36</b>	<b>35</b>
<b>Minority</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>20</b>

# Corporate/Public Partnerships

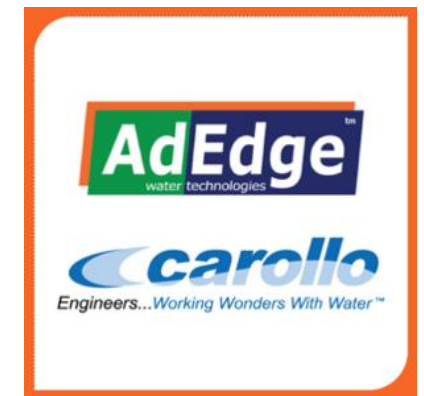
*Community-based Population Health and Genetics Project*  
**10,000 Nevadans** registered in less than **48 hours**





# waterstart

channels for innovation



# Unmanned Aerial Systems

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Winnemucca Farms

Agricultural  
Operations



Cloud Seeding

Drought  
Mitigation



Wildfire Applications

Sensor/Payload  
Development

# Philanthropic Efforts

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- ① **Five-year Goal**

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- ① **DRI Foundation**

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- ① **Development Office**

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- ① **Innovation Research Program**



# NSHE Collaborations

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- ④ **41** UNR and UNLV Grad Students with DRI Faculty as Primary Advisors
- ④ **36** UNR and UNLV Graduate Students Supported by DRI
- ④ **26** NSHE classes taught by DRI faculty
- ④ **80** DRI faculty involved in teaching and advising

# NSHE Collaborations

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- ① **New Post Doc Programs with UNLV and UNR**
- ① **Planning new research partnerships with UNR and UNLV**

# S.T.E.M. and K-12 Outreach

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## Green Box Science Kits

- 20,134 students reached in 2016
- More than 100 different S.T.E.M. topics



## Training and Outreach

- 385 Teachers and educators trained in 2016
- 188 Schools participating (**29% of NV**)



# Questions

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# Back-Up Data



# Federal Grants and Contracts by Source

