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A World Of  
Productive  
Sustainable  
Agriculture

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# 2017 GAP REPORT<sup>®</sup>

GLOBAL AGRICULTURAL  
PRODUCTIVITY REPORT<sup>®</sup>

October 18<sup>th</sup>  
11 AM to 1 PM CDT

Des Moines Marriott Hotel  
Or online at  
[globalharvestinitiative.org](http://globalharvestinitiative.org)

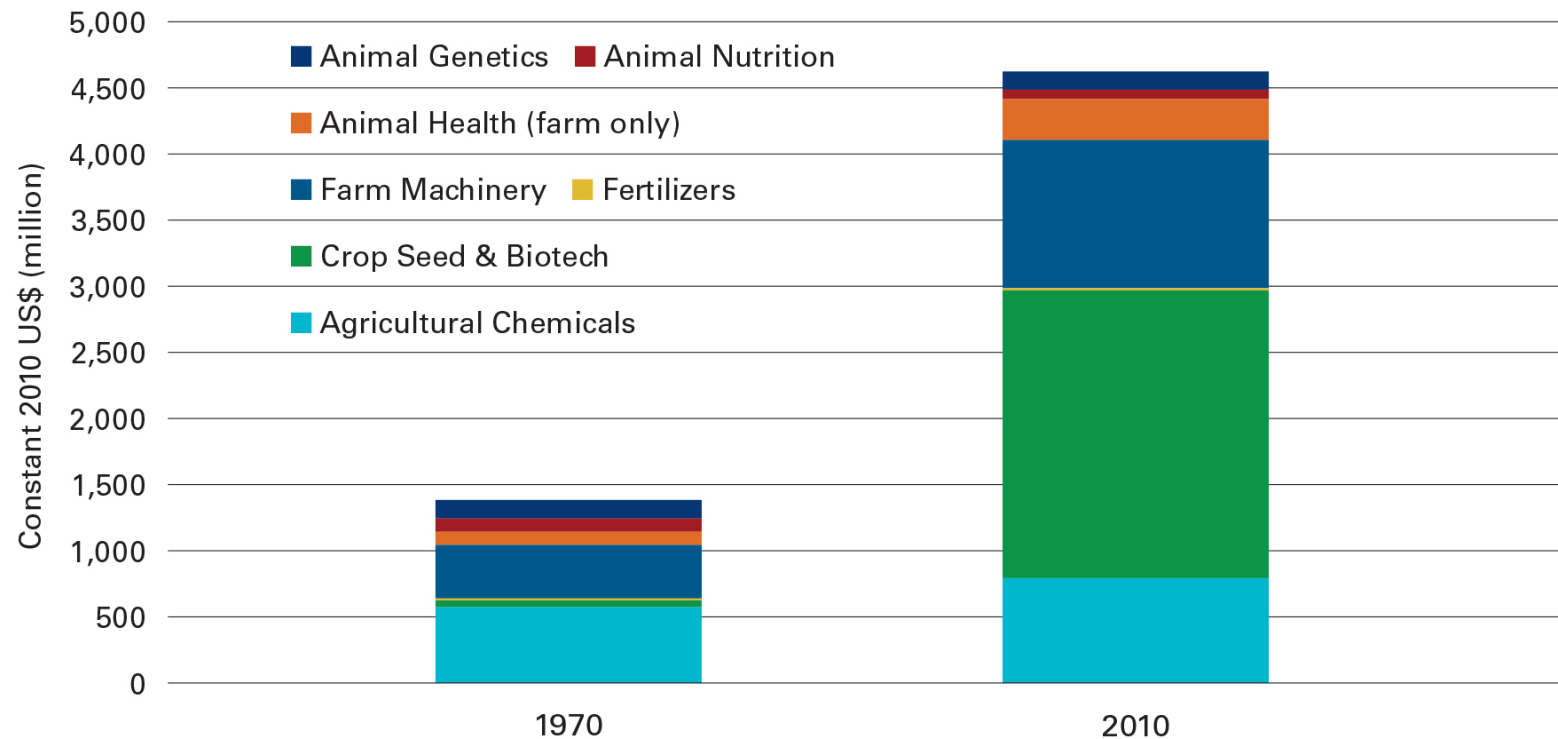
# Five Key Policy Priorities





# U.S. Private AG R&D Grows Since 1970

**Figure 17:** Composition of U.S. Private Sector Agricultural Research, 1970 and 2010



Source: Fuglie, Keith, Paul Heisey, John King, Carl Pray, Kelly Day-Rubenstein, David Schimmelpfennig, Sun Ling Wang and Rupa Karmakar-Deshmukh, 2011. "Research Investments and Market Structure in the Food Processing, Agriculture Input and Biofuel Industries Worldwide." ERR-130, USDA ERS, Washington, DC.

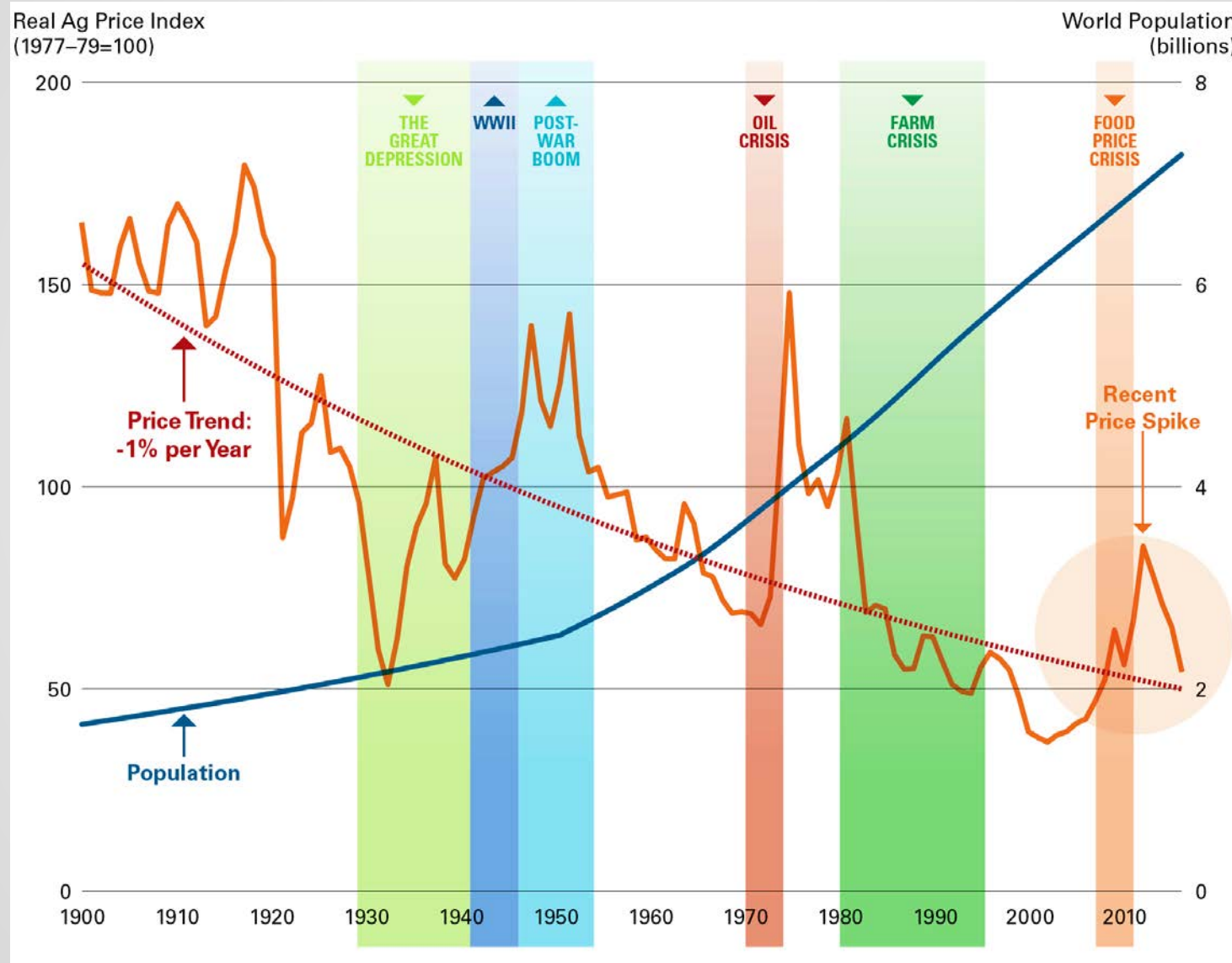
Between 1990 and 2014,  
global private AG R&D spending  
more than tripled,  
from \$5 billion to more than  
\$15.6 billion annually

(in nominal \$US; Fuglie, 2016)

Between 2003 and 2014,  
the annual growth rate of  
private AG R&D investment  
was about 7 %

-Fuglie , 2016

# Productivity Throughout the Business Cycle





# Sustainable Agriculture

- Satisfies human needs
- Enhances environmental quality and the natural resource base
- Sustains the economic viability of agriculture
- Improves the quality of life for everyone in the ag value chain and society as a whole



As much as 28% of total private AG R&D (\$4.3 billion in 2014) may be targeted towards farming in developing countries.

But a significant gap still exists for investment in the lowest-income countries.

-Fuglie , 2016



CGIAR & private sector

CIMMYT and DuPont

Inter-American Institute for  
Cooperation on Agriculture  
(IICA)

Foundation for Food and  
Agriculture Research  
(FFAR)

Water Efficient Maize for Africa (WEMA)

# Private Sector Open Innovation Platforms and Venture Capital



## For Innovators

Quicker grant process  
with potential for  
future partnership



## For Private Sector

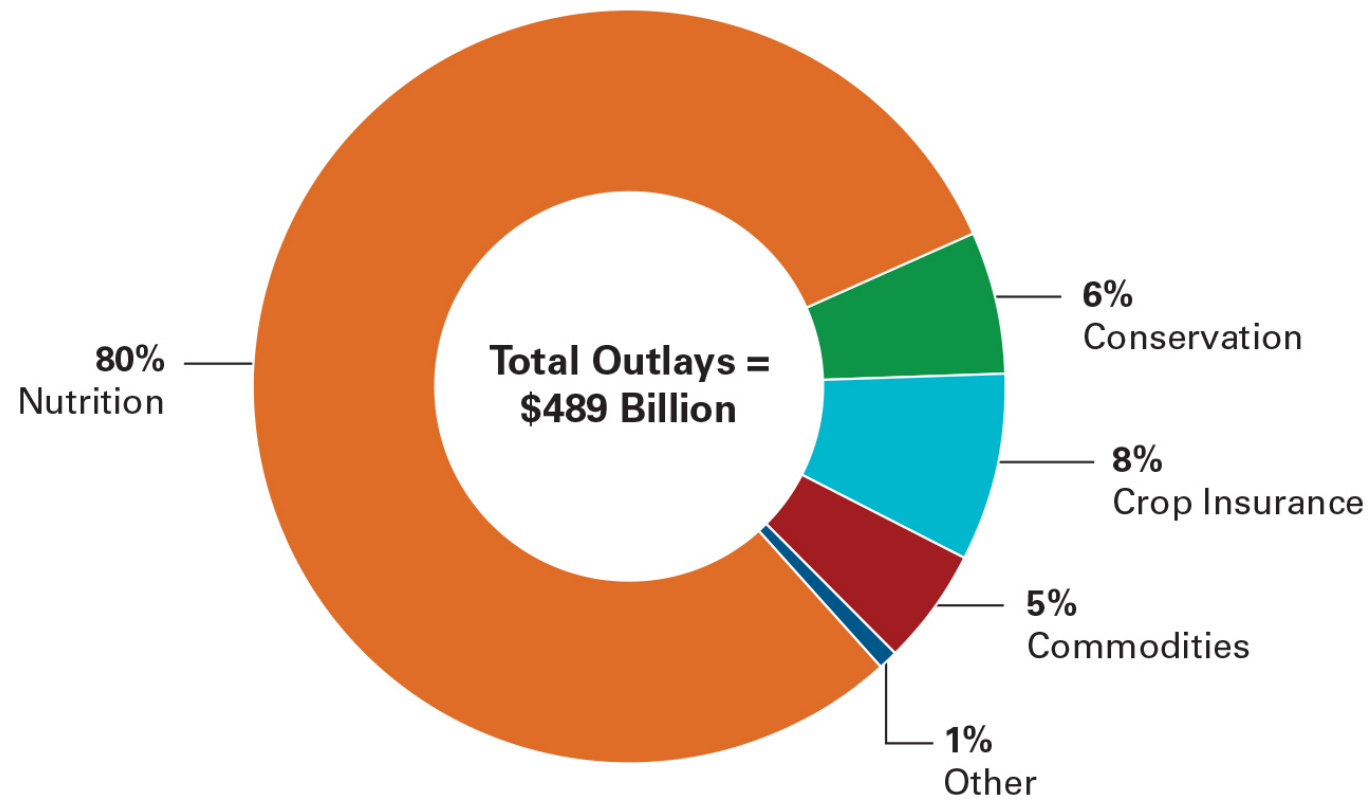
Access to new talent  
and ideas and a clear  
path to identifying  
solutions

In the U.S., private venture capital  
for food and ag innovation  
rose sharply  
from \$400 million before 2013 to  
\$4.6 billion in 2015

(Fuglie, 2016)

# Projected Outlays, 2014 Farm Bill

**Figure 18:** Projected Outlays, 2014 Farm Bill, 2014–2018



Source: USDA, Economic Research Service, using data from Congressional Budget Office, Cost Estimates for the Agricultural Act of 2014, Jan 2014.



Thank You!



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