

Congressional Authorization
of the
National Network for Manufacturing Innovation

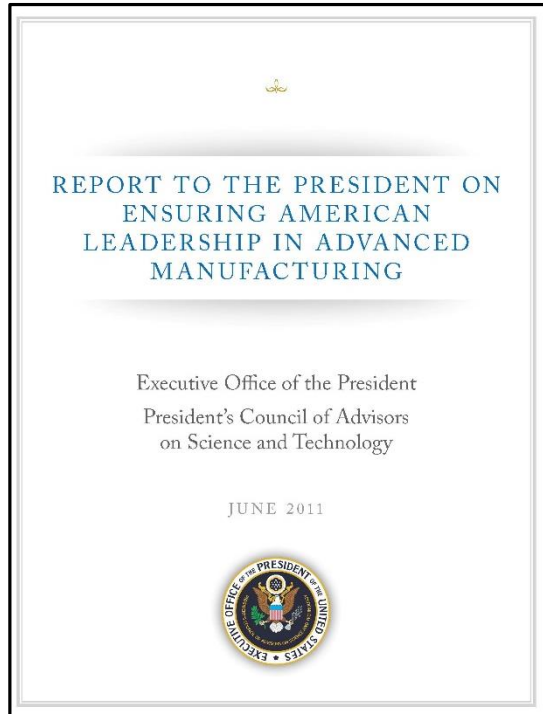
Requirements & Implications for NIST

*Visiting Committee on Advanced Technology
February 4, 2015*

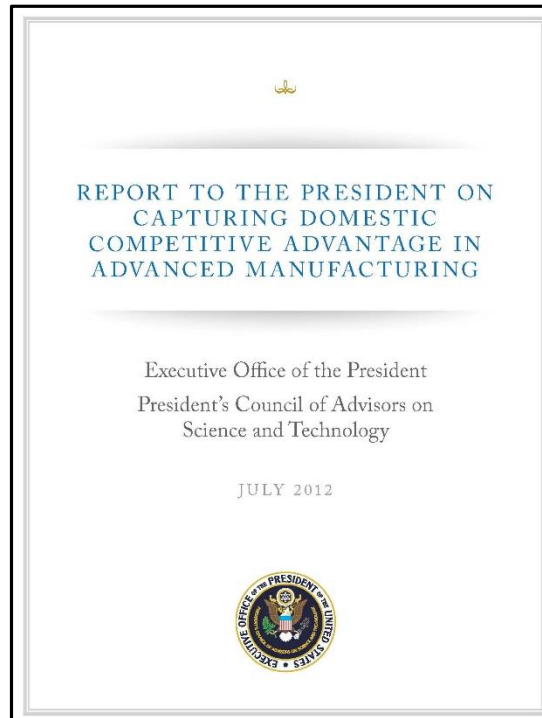
Mike Molnar
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National Institute of Standards and Technology

PCAST: The independent basis of NNMI

President's Council of Advisors on Science and Technology



PCAST 2011
***Recommends Advanced
Manufacturing Initiative as national
innovation policy***



PCAST 2012
***Recommends Manufacturing
Innovation Institutes to address
key market failure***



PCAST 2014
***Recommends strong, collaborative
network of Manufacturing
Innovation Institutes***

The President's Vision – 45 Institutes



AP Photo/Susan Walsh

“In my State of the Union Address, I asked Congress to build on a successful pilot program and create 15 manufacturing innovation institutes that connect businesses, universities, and federal agencies to turn communities left behind by global competition into global centers of high-tech jobs.”

“Today, I’m asking Congress to build on the bipartisan support for this idea and triple that number to 45 – creating a network of these hubs and guaranteeing that the next revolution in manufacturing is ‘Made in America.’”

- July 30, 2013

NNMI Authorized: Revitalize American Manufacturing & Innovation Act

118 bipartisan RAMI Bill Sponsors



Rep. Tom Reed
R NY-23



Rep. Joe Kennedy
D MA-4



Sen. Sherrod Brown
D Ohio



Sen. Roy Blunt
R Missouri



September 15, 2014 –
Passed House
100 Cosponsors (51D, 49R)



December 11, 2014 –
Passed Senate with 2015
Appropriations
18 Cosponsors (10D, 7R, 1I)



December 16, 2014 –
Signed By President Obama

Bipartisan Momentum Supporting NNMI Passage

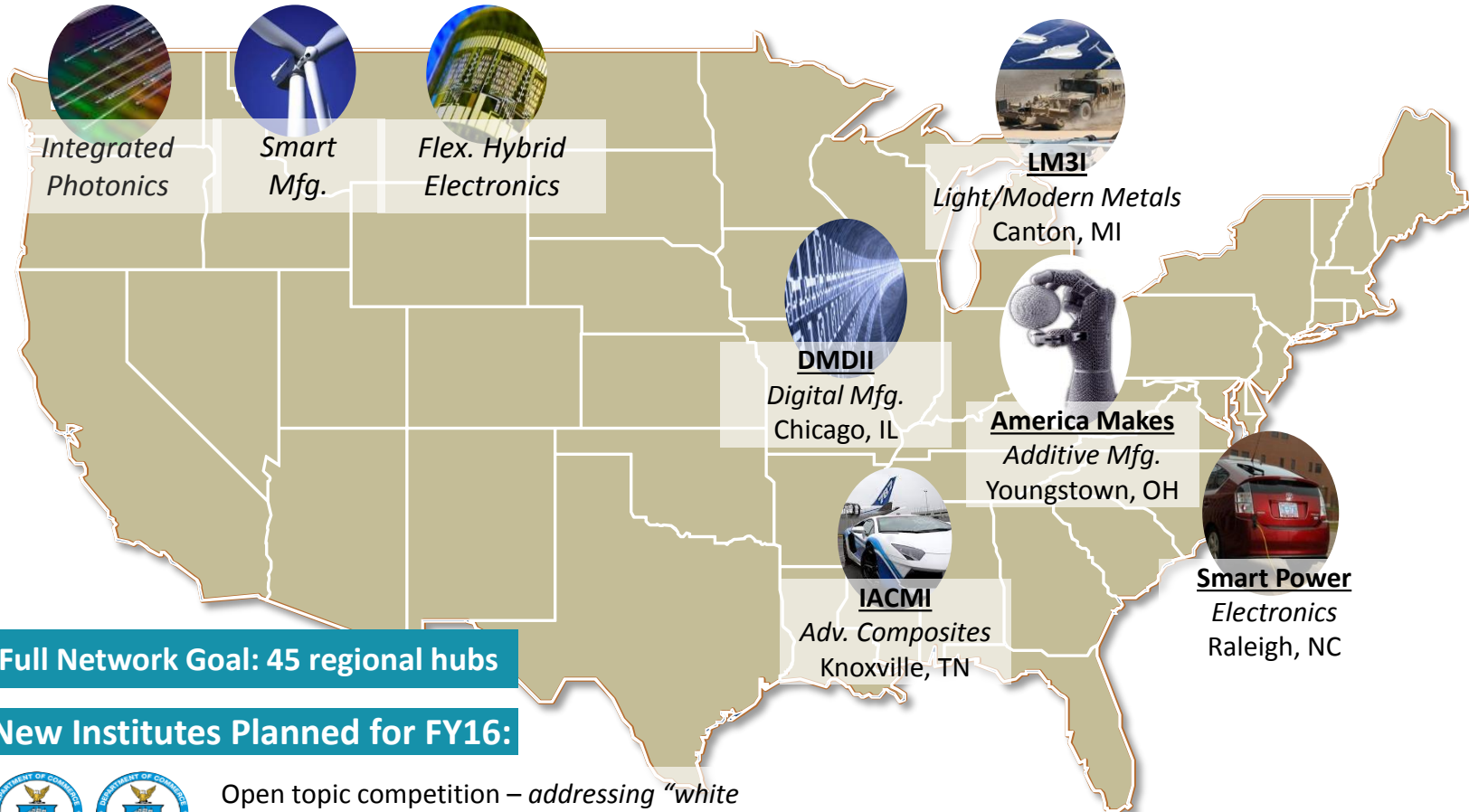
RAMI and NIST

Call to Action: RAMI calls upon the U.S. Secretary of Commerce and NIST to **establish:**

- 1. The “Network for Manufacturing Innovation Program”** (*Network function*) - to convene and support a network of Institutes
- 2. New “Centers for Manufacturing Innovation”** (*Institutes*) - using an open topic, open competition process
- 3. The National Program Office** at NIST - to oversee and carry out the program (*coordination, network support, and reporting*)

1) Establish/Convene the Network: *Current Institute Status*

FORTHCOMING FY15



Full Network Goal: 45 regional hubs

New Institutes Planned for FY16:



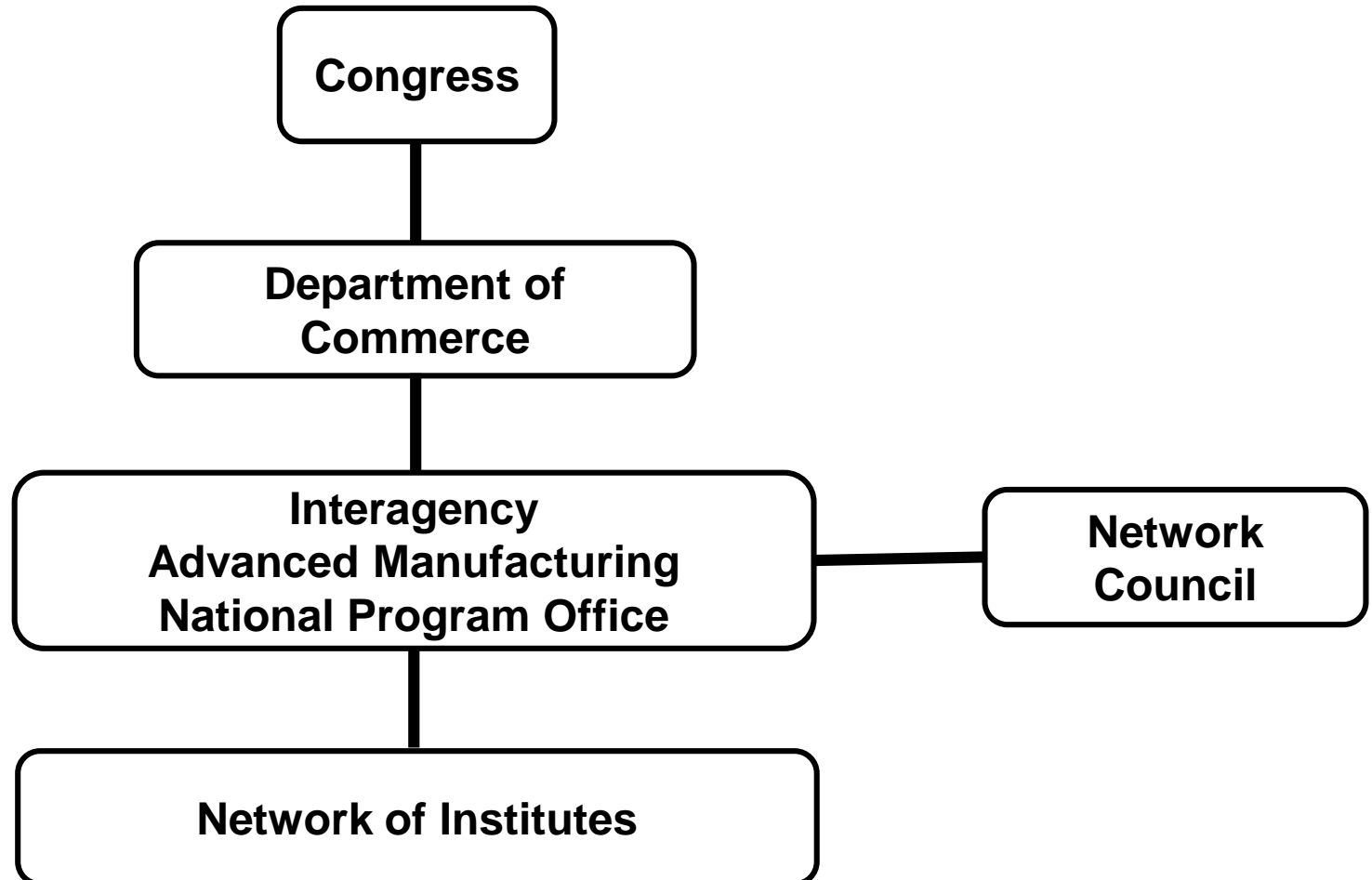
Open topic competition – addressing “white space” between mission agency topics



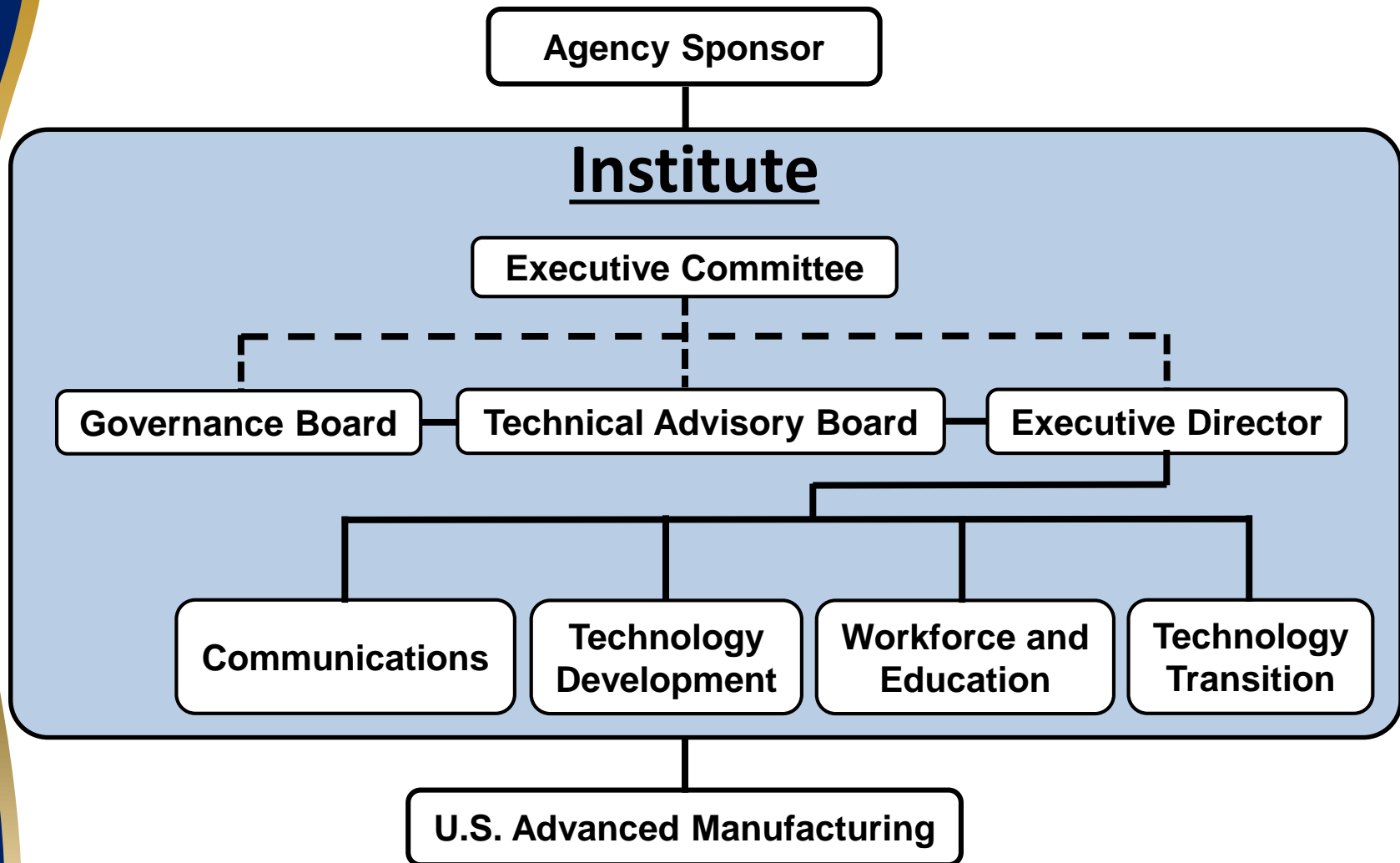
Selected topic competitions supporting Agency mission – using agency authorities and budgets

Develop a Network Support Structure & Operations

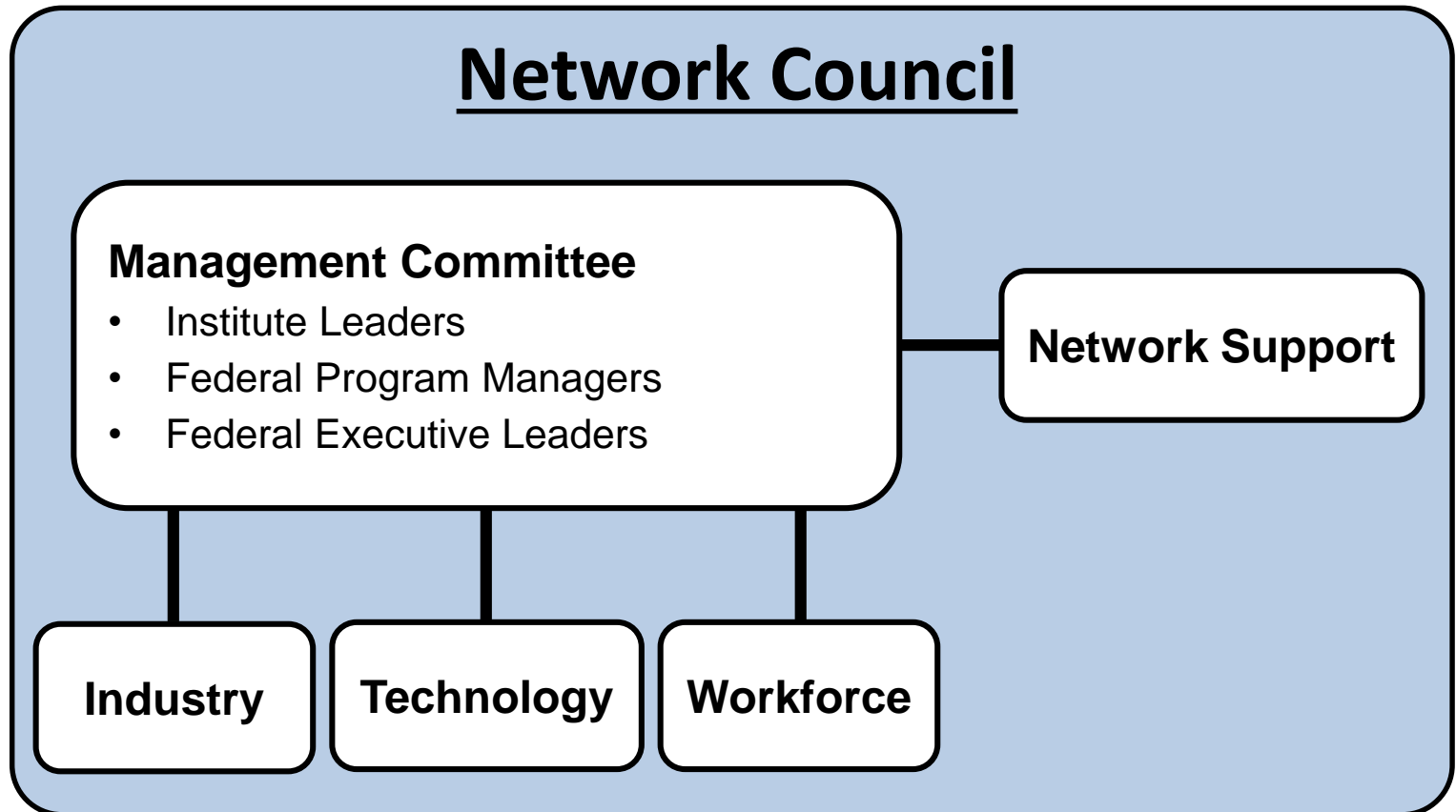
Network Structure



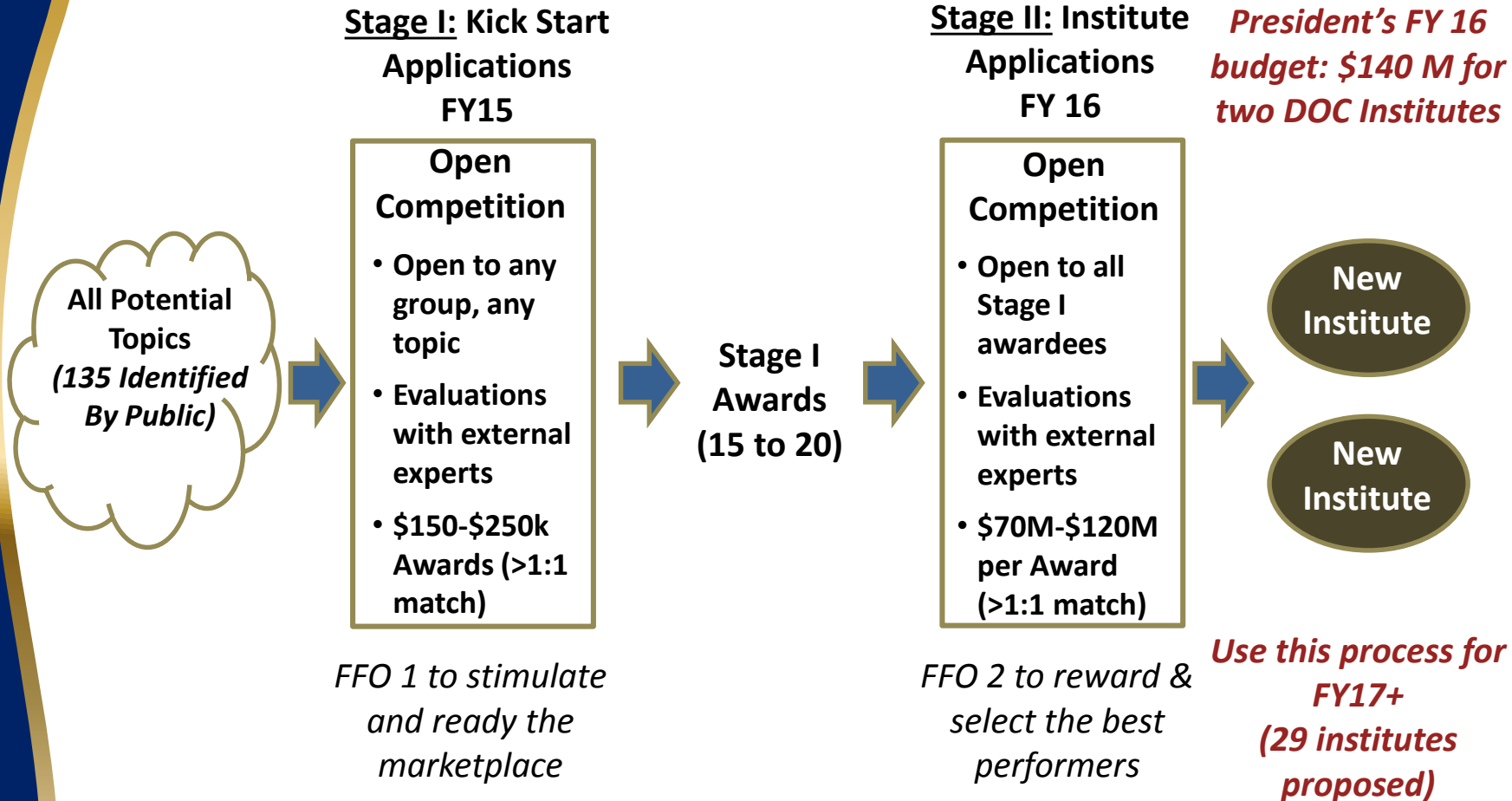
Network Parallels/Complements the Typical Institute Structure



Draft: Network Council with Strong Advisory Board Presence



2) Initiate Open Competitions: DRAFT *Dual-Stage “Kick Start” Strategy*



Dual-Stage “Kick Start” Objectives: *Industry Commitment/Ownership*

- Catalyze robust industry-led consortia commitment and progress to establish an *Institute*, with greatest private-sector co-investment and industry owners.
- Maximize potential for successful, self-sustaining *Institutes* involving broad and diverse stakeholders.
- Establish *Institute* awards as early as possible.
- Learning from DoD and DoE, this process allows *Institute* Awardees to “hit the ground running”.

Dual-Stage “Kick Start” **Opportunities:** *Open-Topic, Quality, Timely Competitions*

- A two stage competition that uses full recommendation of RAMI to “... assist the organization in planning, establishing, or supporting a center of manufacturing innovation.”
- Leverage “funneling effect” to allow proposals by industry consortia on any topic, with lowest stakeholder burden and highest quality.
- Quickly launch a FY 2015, “Stage I” competition that accelerates final Institute awards by 12 months.

Thank you

Questions?

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Background / Supplemental RAMI Competition Requirements

The Secretary Shall...

1. **Financial:** “...award financial assistance to a person or group of persons to assist the organization in planning, establishing, or supporting a center for manufacturing innovation.”
2. **Open Process:** “...ensure an open process that will allow for the consideration of all applications relevant to advanced manufacturing regardless of technology area.”
3. **Outside Expertise:** “...use a competitive, merit review process that includes peer review by a diverse group of individuals with relevant expertise from both the private and public sectors.”
4. **Transparency & Accountability:** “...implement a conflict of interest policy that ensures public transparency and accountability, and requires full disclosure of any real or potential conflicts of interest on the parts of individuals that participate in the merit selection process.”