

# Next Generation Technology Transfer

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# Innovation in Tech Transfer

## *Traditional*

- *University tech transfer office*
- *Incubators*
- *Venture Capital*

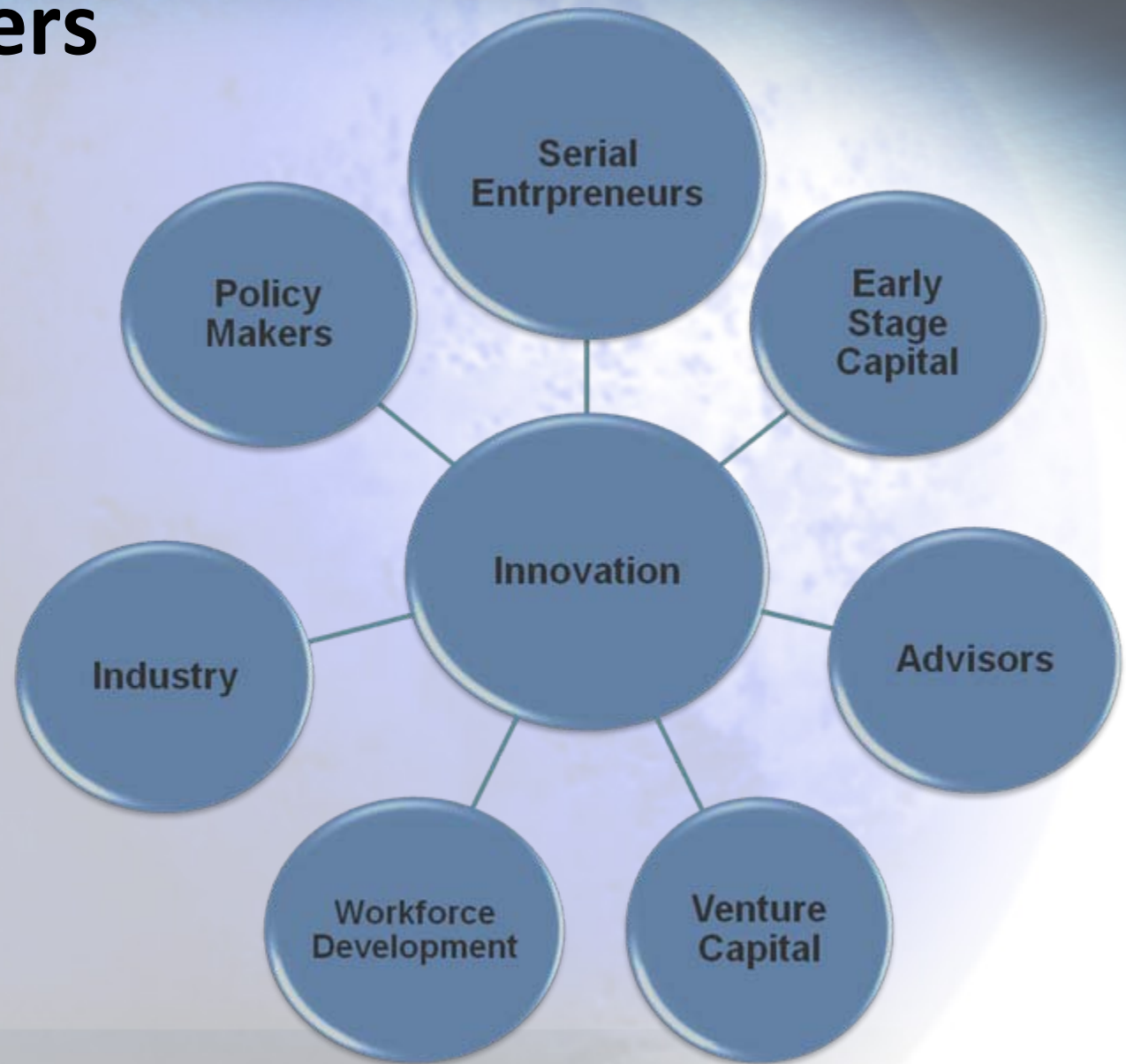
## *Innovative*

- *Clusters*
- *Accelerators*
- *Tech Scouting*
- *Rapid Prototyping*
- *Technology Challenges*

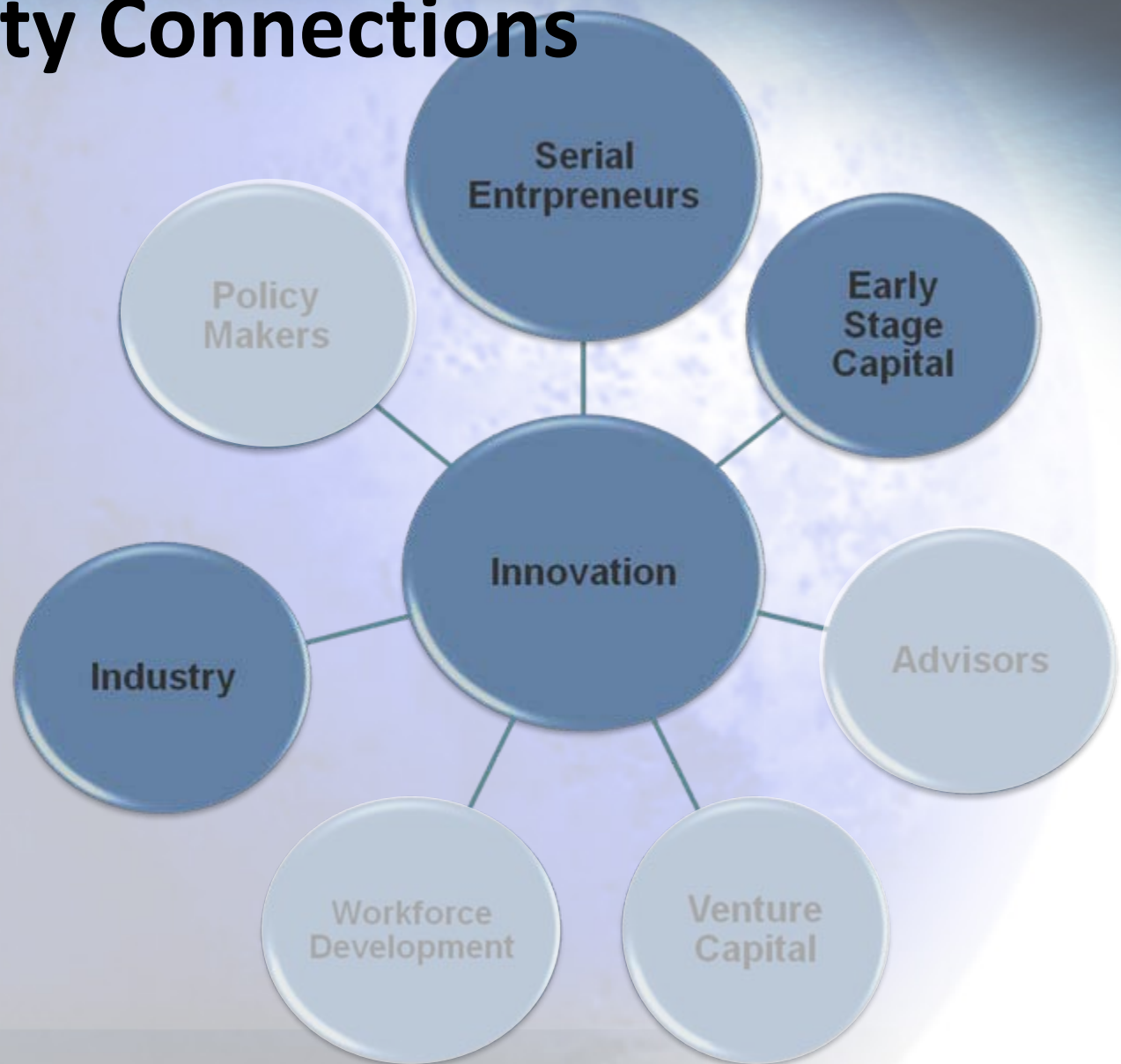
# Traditional Tech Transfer Cycle



# Clusters



# Priority Connections





# Mini-Clusters

- **University of Maryland Baltimore**
  - **BioPark**
- **FDA/GSA**
  - **LifeSci Villages at White Oaks**
- **Johns Hopkins University**
  - **Science + Technology Park**



# Accelerators

## Watervliet Innovation Center

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# Tech Scouting



***BOEING***®



***NORTHROP GRUMMAN***

**ARINC**





# Shopping list

## Informatics

- data fusion
- data mining
- info assurance
- visualization

## Ports of Entry

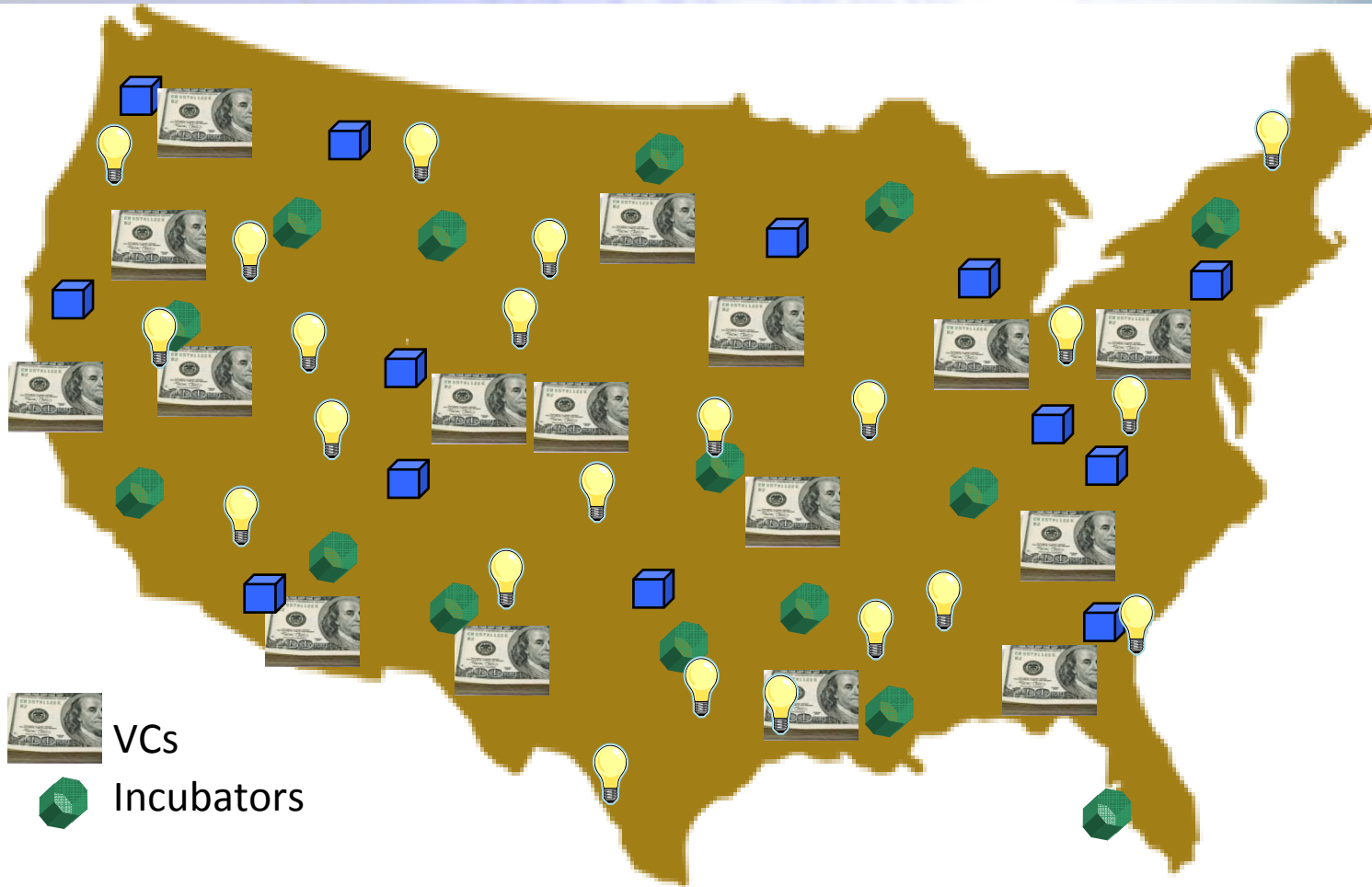
- unmanned platforms
- CBRNE-WMD-IED
- cargo screening

## Advanced Tech

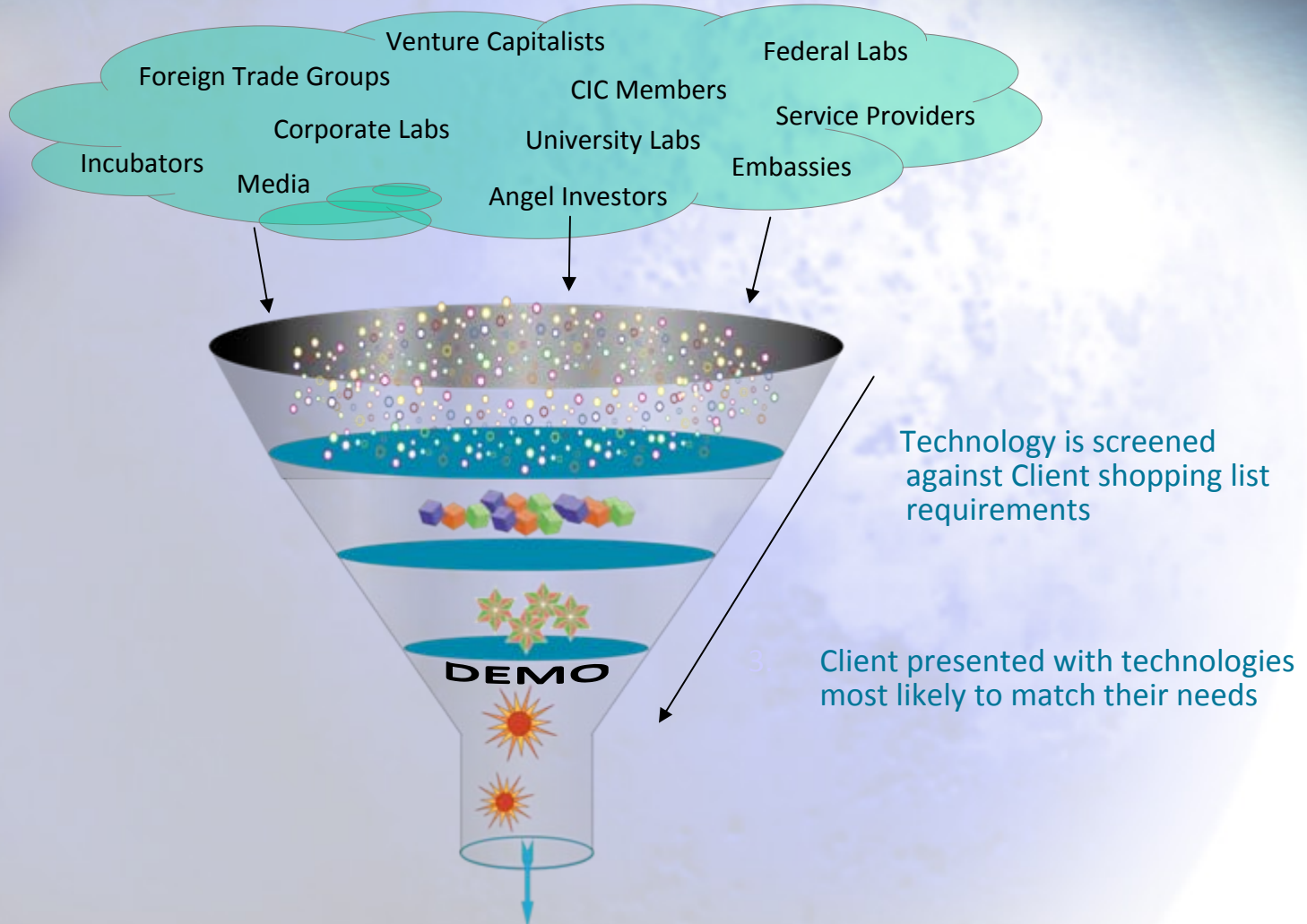
- C4ISR
- thermal management systems
- self organizing networks

# Shopping list is distributed

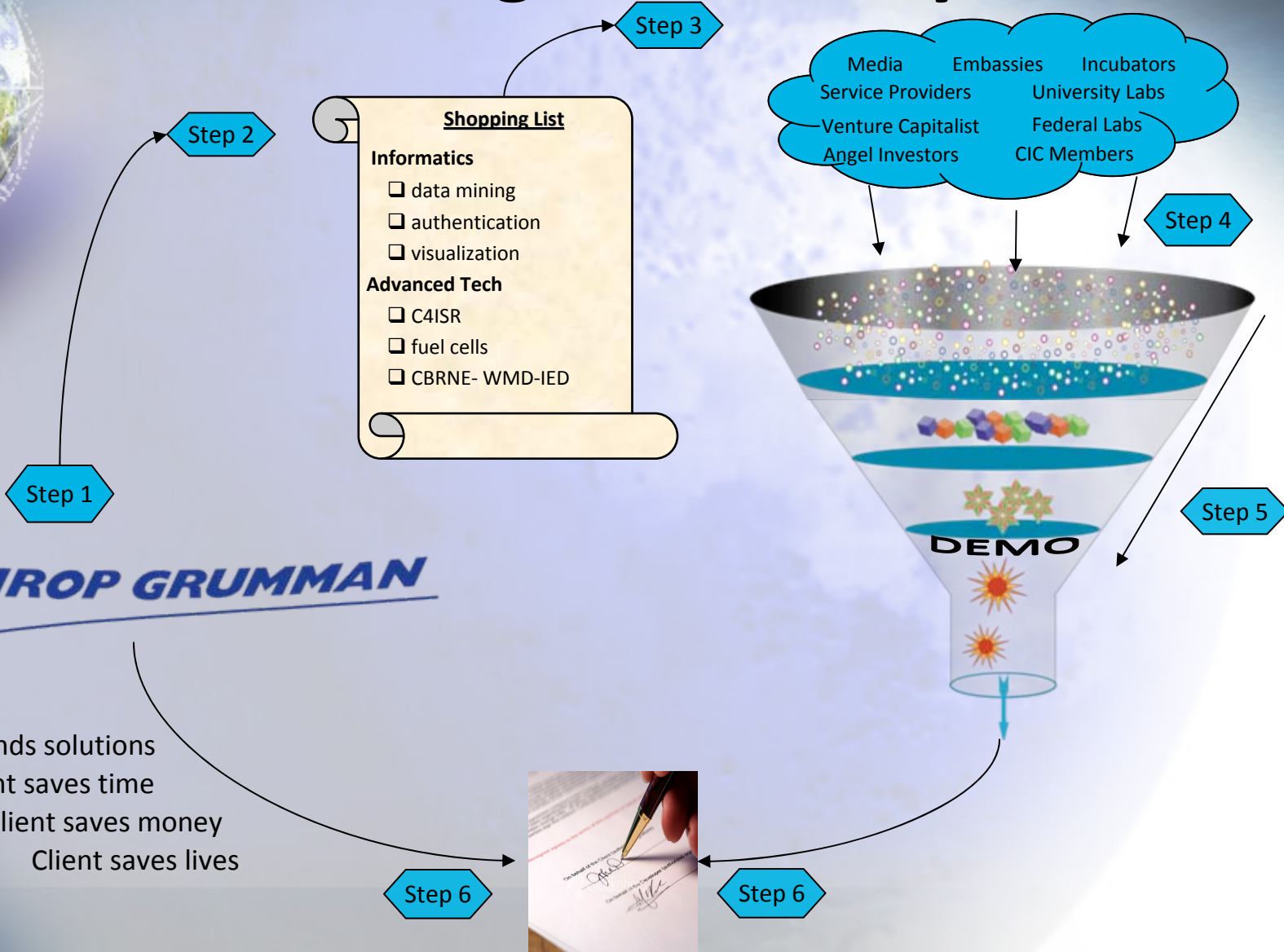
 Angels  
 Labs



# Technology entered in portal screen



# Tech Scouting shortens cycles



Client finds solutions  
Client saves time  
Client saves money  
Client saves lives

**NORTHROP GRUMMAN**

# Multi-tasking Equipment



# Cutbacks





# Rapid Prototyping

- Identify scope*
  - *Identify “pain”*
  - *Technology needs and requirements*
  - *Test data*
  - *Success metrics*
- Scout*
  - *Broadcast needs*
  - *Shadow scenario*
  - *Use TechBridge to collect*
- Filter*
- Second phase screen with customer*
- Final four*

# Rapid Prototyping- Examples

*Data mining and visualization*

*Graph database*



UNITED STATES  
**INTELLIGENCE**  
COMMUNITY



# Challenges

## ❑ *X Prizes*

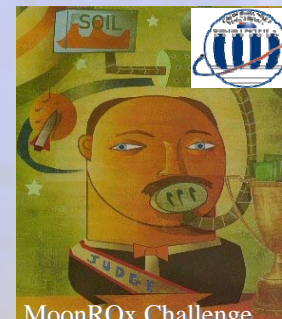
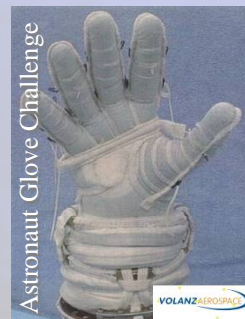
- *100mpg Challenge (X Prize Foundation)*
- *Greenhouse scrubber (Branson)*
- *Movie Suggestions (Netflix)*
- *Private Moon Shot (Google)*
- *Wearable Power (DOD)*
- *Personal Air Transporter (NASA)*



❑ *American Security Challenge (DHS)*

# Funded Centennial Challenge Competitions

Competition	Total	2006	2007	2008	2009	2010	2011
Astronaut Glove	\$1M		250	350	400		
Regolith Excavation	\$750K		250	500			
Personal Air Vehicle	\$2M		250	300	400	500	550
Beam Power	\$2M	200	300	400	500	600	
Tether	\$2M	200	300	400	500	600	
Lunar Lander	\$2M	2,000					
MoonROx	\$1M	250	750				





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