

UNCLASSIFIED



# Delivering Timely Technology

February 2010

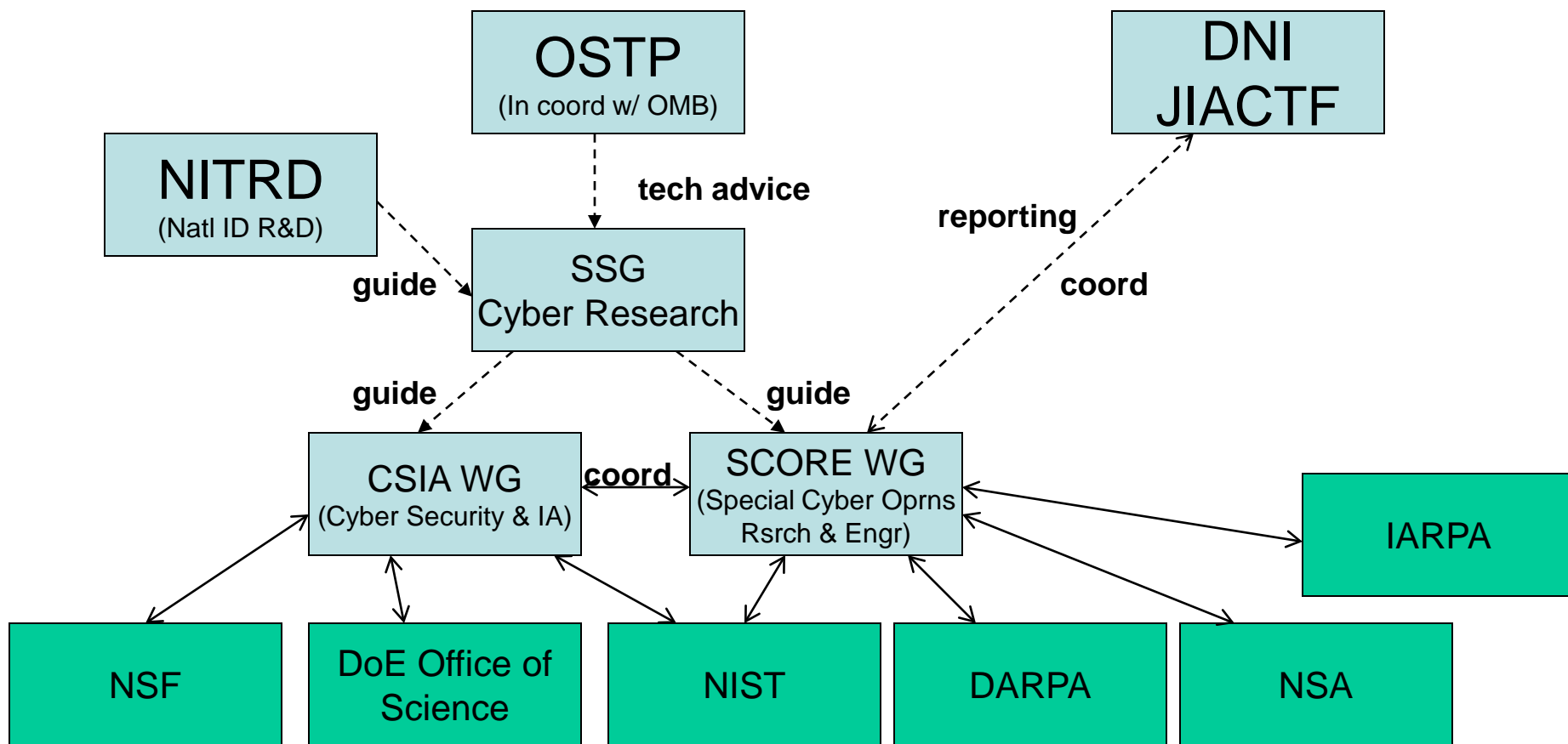
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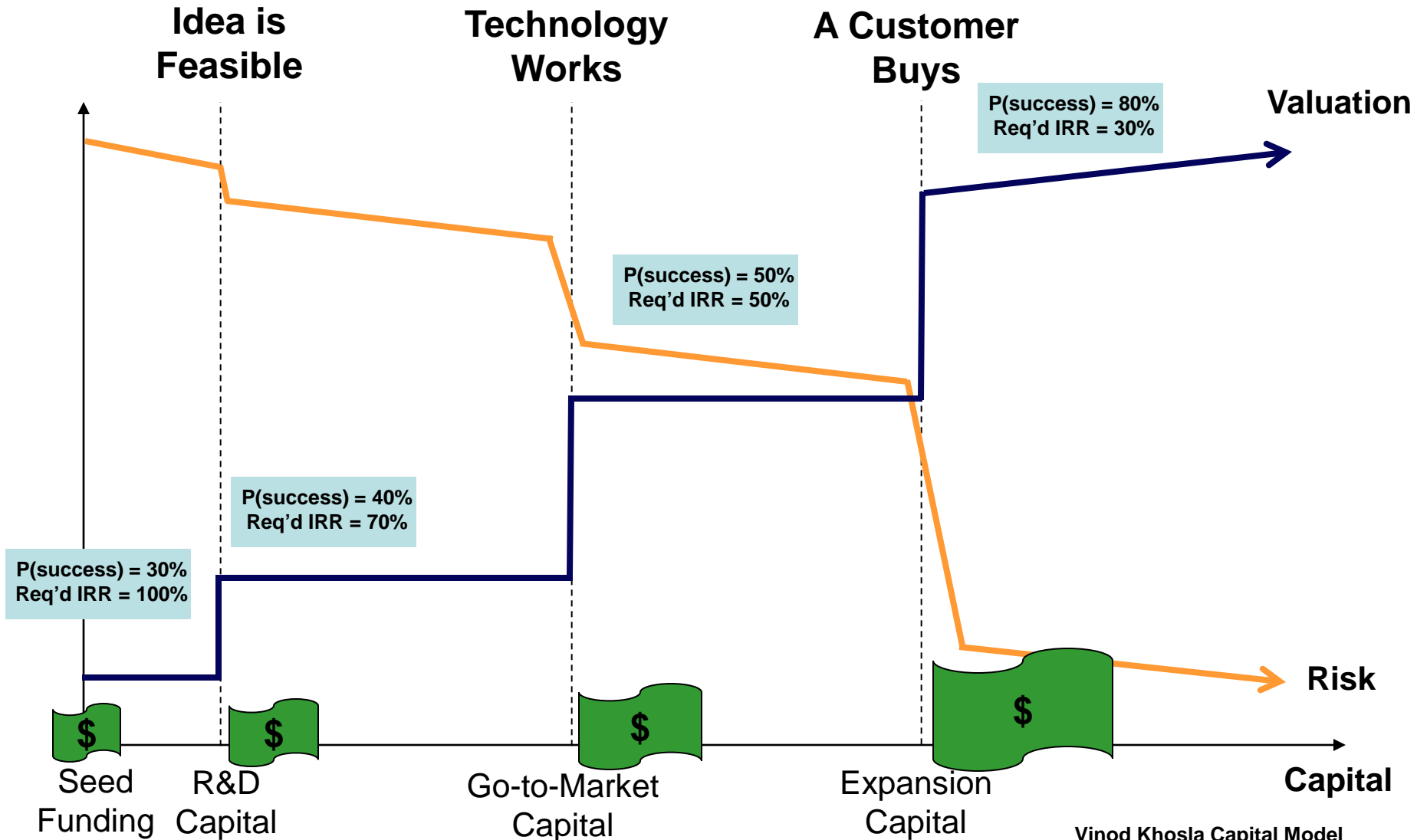
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# R&D Organization Sample: Cyber Research Coordination Landscape

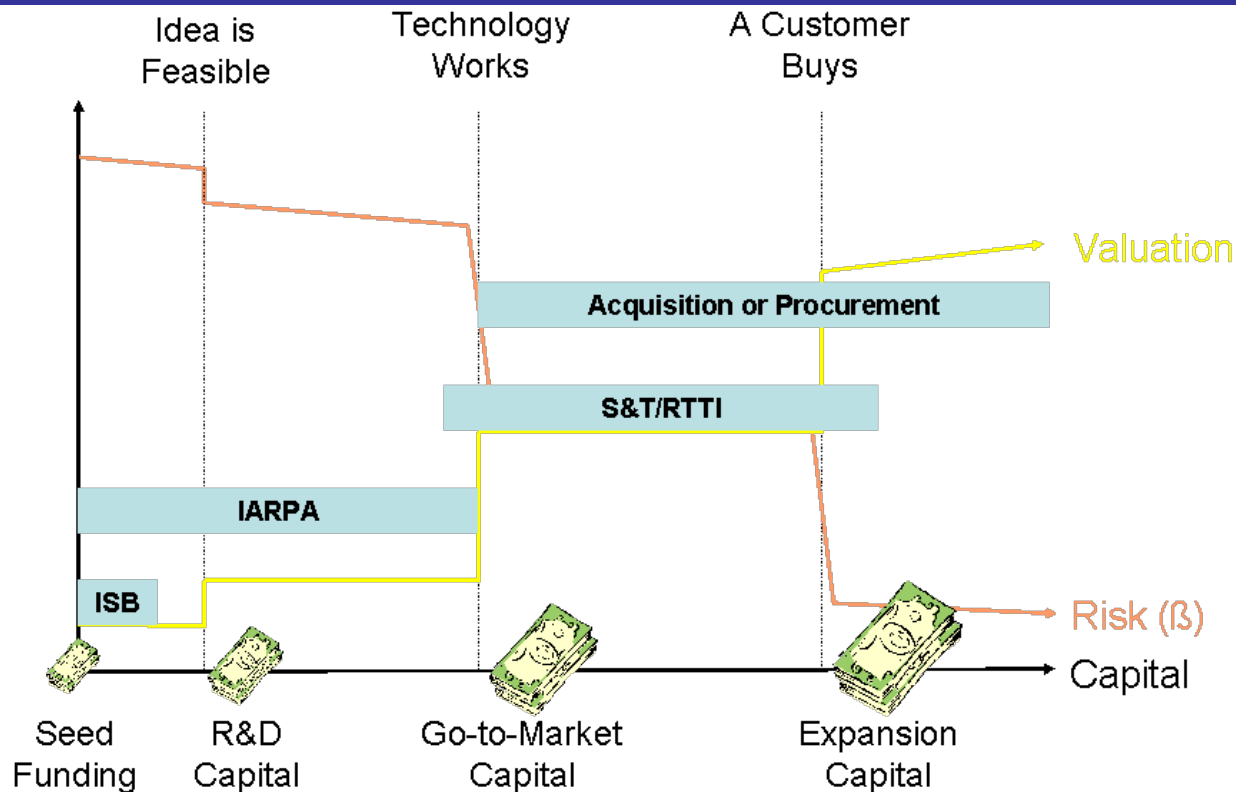


# Technology Production





# A&T Technology Products



**Catalyze delivery of innovative technology-based capabilities solving intelligence challenges.**



# ISB

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- **Identifies emerging scientific and technical issues of special importance to the IC**
  - As requested, reviews the progress of science-related IC activities
- **Composed of preeminent experts from private industry and academia**
  - Approximately 25 members in the three 3-year “classes”
  - Encompasses physical and biological sciences, information technology and communications, information policy, law
  - Provides linkages between the IC, industry and academia
- **FY2010 Planned Studies**
  - Tech Investment Framework
  - Information Sharing & Retention
  - Social Network Uses & Application
  - State of IC Acquisition
  - Climate Change Impacts



# IARPA

[www.iarpa.gov](http://www.iarpa.gov)

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- **Invests in high-risk/high-payoff research programs with the potential to provide an overwhelming intelligence advantage over future adversaries**
- **Attracts and retains the best and brightest**
  - Competitive awards, good ideas and world-class program managers
- **Cross-community focus**
  - Address cross-agency challenges
  - Leverage expertise from across the community (operational and R&D)
  - Work transition strategies and plans with agency partners
- **Three Strategic Thrusts**
  - Smart Collection: Dramatically improve the value of collected data
  - Incisive Analysis: Maximize insight from collected information in a timely fashion
  - Safe and Secure Operations: Counter adversary capabilities that could threaten our ability to operate effectively in a networked world



# Science & Technology

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- **Formulates IC long-term strategy for scientific advances in the field of intelligence**
  - *IC S&T Strategy*
  - *Annual Priorities Guidance*
    - Technical Collection: Detect, locate, identify WMD
    - Communications and Sharing: Easy user access to data and information (MLS Collaboration)
    - HUMINT: Validation of human sources, Biometrics
    - Intelligence Analysis: Improved search & machine reasoning
    - Protection of the Intelligence Enterprise: crypto & self-protecting data
    - Basic & Applied Research: Nano, Quantum, Power
- **Coordinates cross-community S&T efforts**
  - Chairs National Intelligence Science and Technology Committee, who coordinates advances in R&D related to intelligence
  - Creates “capability roadmaps” for key emerging technology areas
  - Administers “DNI Fellows” Program
- **Sponsors Rapid Tech Transition**



# Acquisition

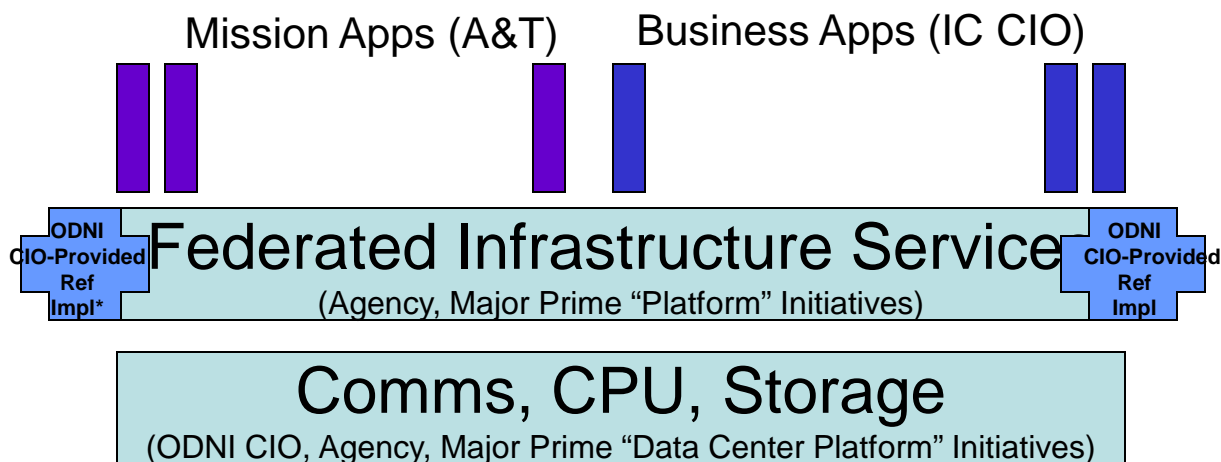
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- **Executes Milestone Decision Authority for the DNI**
  - Develops DNI acquisition policy and policy guidance
  - Manages the delegation process for DNI MDA
  - Oversees execution of MDA delegated to IC agencies and secretariat for MDA retained by the DNI
  - Reviews mandated Program Management Plans for NIP major systems acquisitions, independently assesses their status, and develops the annual report to Congress
- **Establishes initiatives to enhance the IC Acquisition workforce**
- **Establishes initiatives to enhance contracting efforts within the IC**



# Operationalizing an IC Architecture

- ODNI Organizational Responsibilities:
  - SRA: Operational Architecture
    - Operationalized via FM Architecture Integration
  - CIO: Technical Architecture, Business Apps Run-Time Architecture
    - Tech Arch: Operationalized via Tech Specs with Reference Implementations & Oversight
    - Back Office Apps Run-Time Architecture: Operationalized via BTO Activities
  - A&T: Mission Apps Run-Time Architecture
    - Operationalized via Major Prime and/or Agency Run-Time Platform Implementations & Oversight



\*i.e., Federated  
Discovery,  
Identity Mgmt,  
ESM,  
Access Mgmt



# Near-Term Opportunities & Challenges

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- IT Platforms: From MSAs to Procurements
- Identify Key IC Enterprise Challenges and Leverage the Entire S&T Community...
  - Cyber
  - AfPak Support
  - Collection Gaps
  - Analytics & Automation
  - Wireless