



Logic Models for a Diverse Portfolio of Research, Technology, and Deployment Programs

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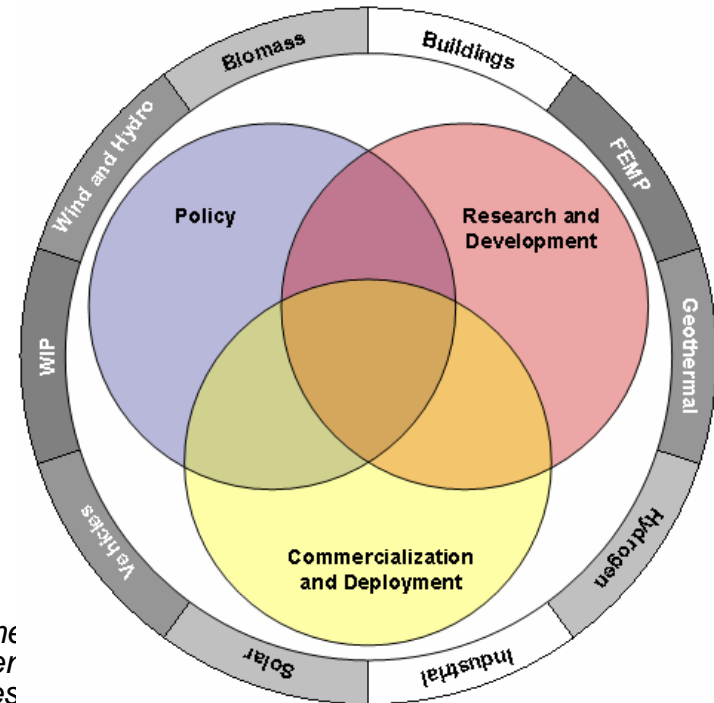
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Office of Energy Efficiency and Renewable Energy (EERE)

- EERE accomplishes its mission through 10 Technology Development (TD) Programs and the Office of Technology Advancement and Outreach (TAO):

- The 10 TD Programs are:

- Fuels & Vehicles
 - Vehicles Technologies
 - Biomass/Biofuels
 - Hydrogen
- Power Generation
 - Wind
 - Solar
 - Geothermal
- Energy Efficiency
 - Building Technologies
 - Industrial Technologies
 - Weatherization
 - Federal Energy Management



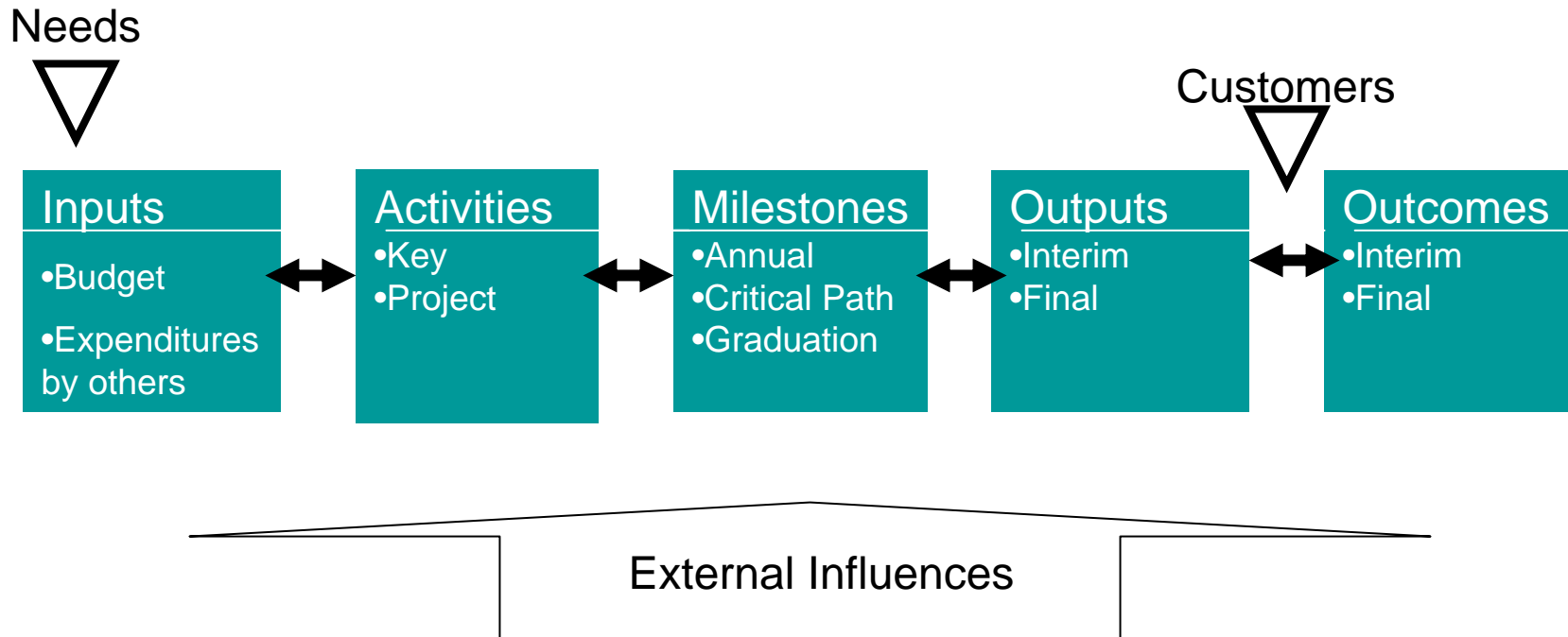
- These research, development, demonstration, and deployment R&D that accelerates the development of advanced clean energy also have deployment components and activities that address technologies that facilitate the deployment of advanced technologies and practices that may be either currently available or in the R&D pipeline for future deployment.

The Performance Measure Challenge

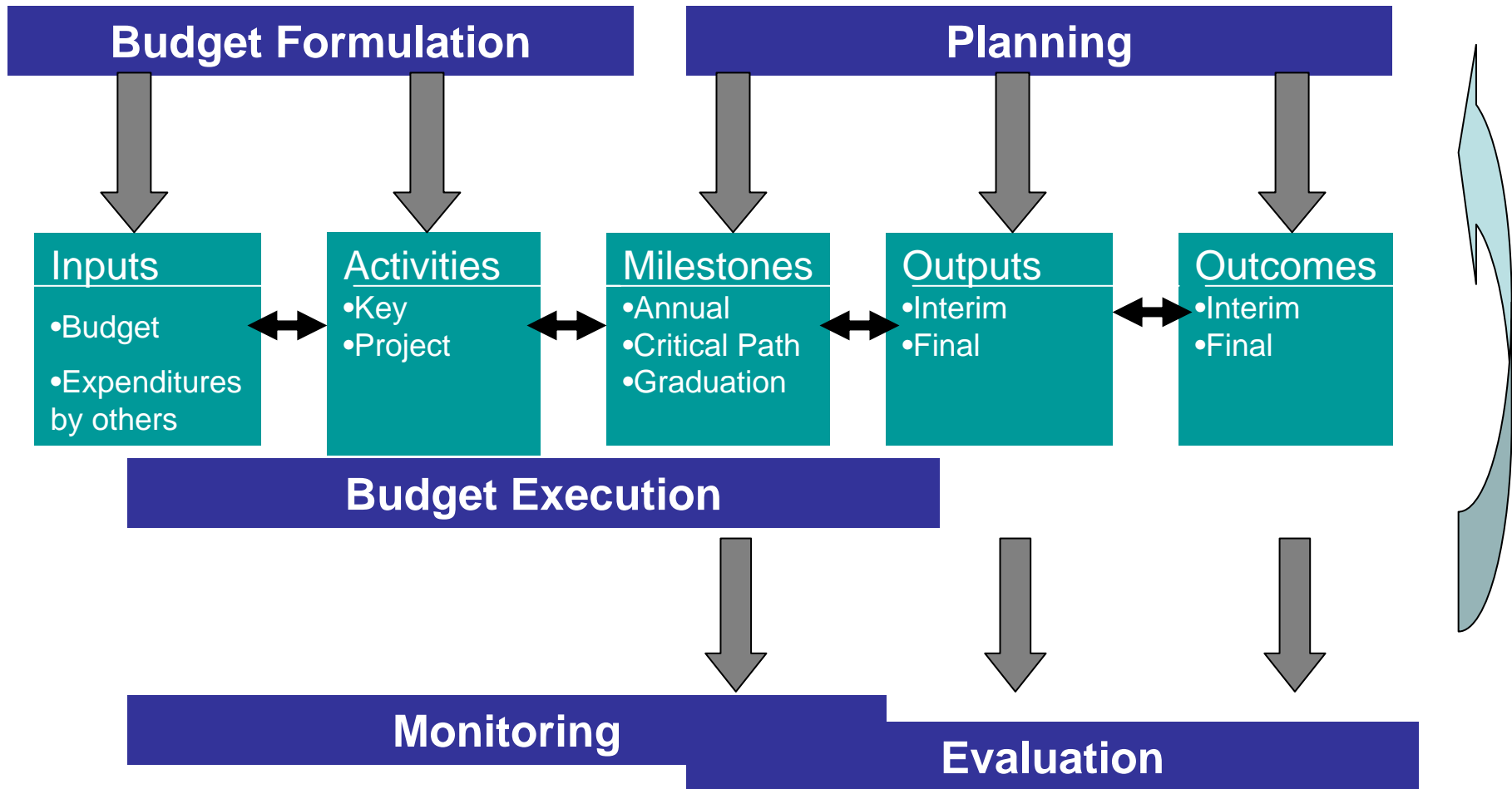
Improve current performance measures by defining a relatively small set of meaningful measures that

- Respond to multiple stakeholder perspectives
- Link performance in multiple levels of the organization
- Capture more performance
- Reduce proliferation of measures
- Increase consistency across diverse portfolio
- Link activities to outcomes (the magic in the middle)

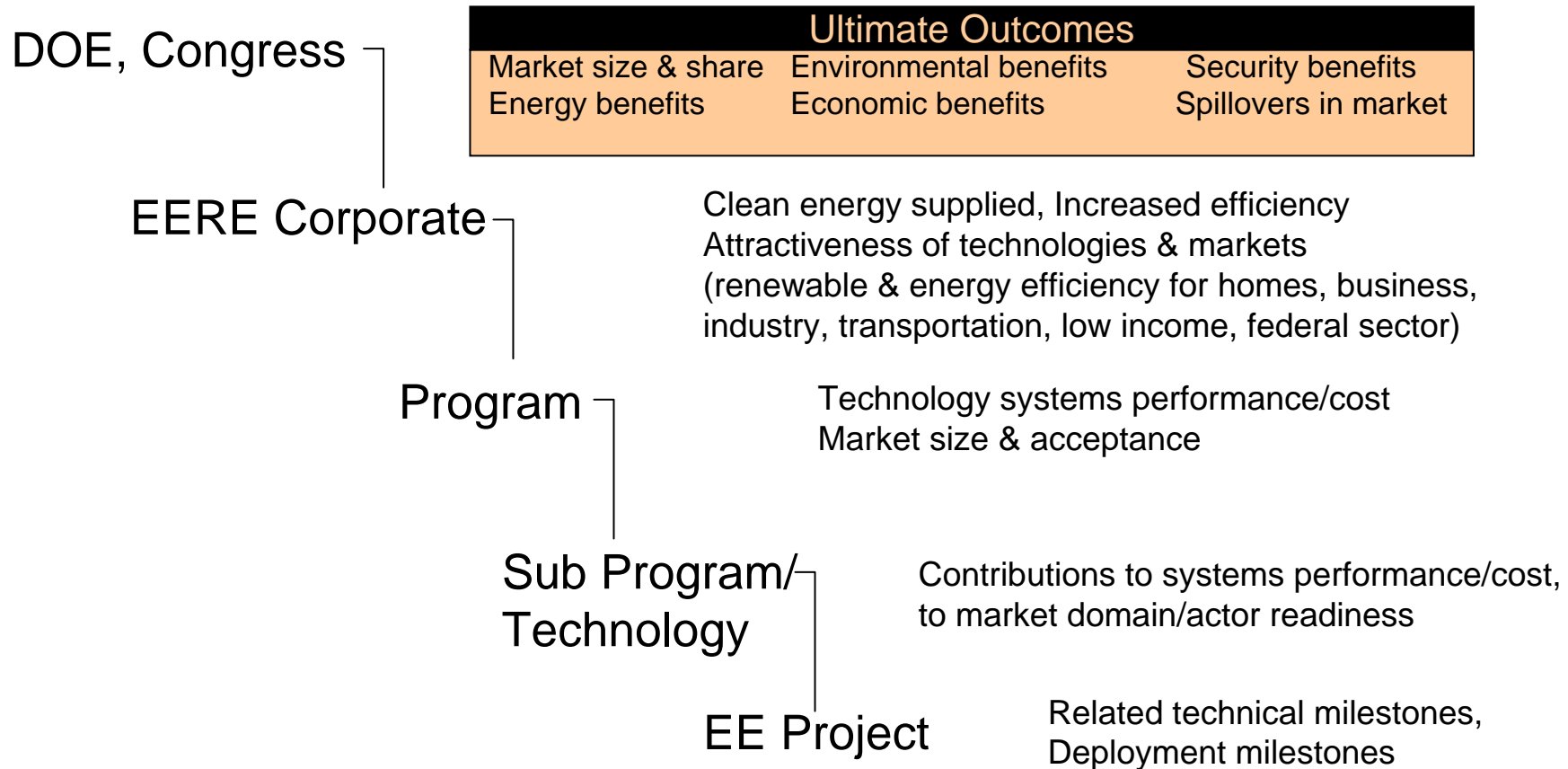
A Basic Logic Model



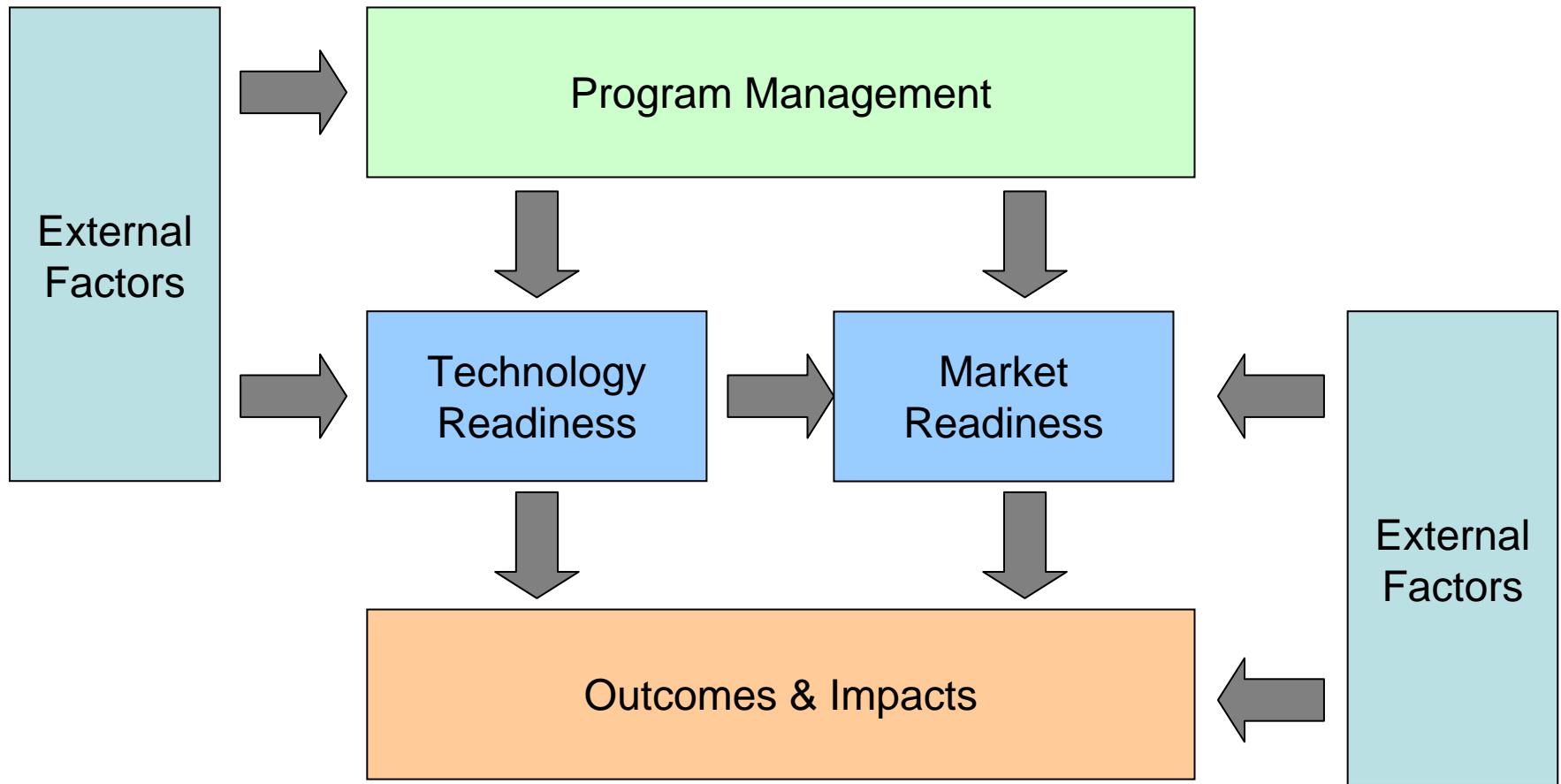
The Logic of Performance Management



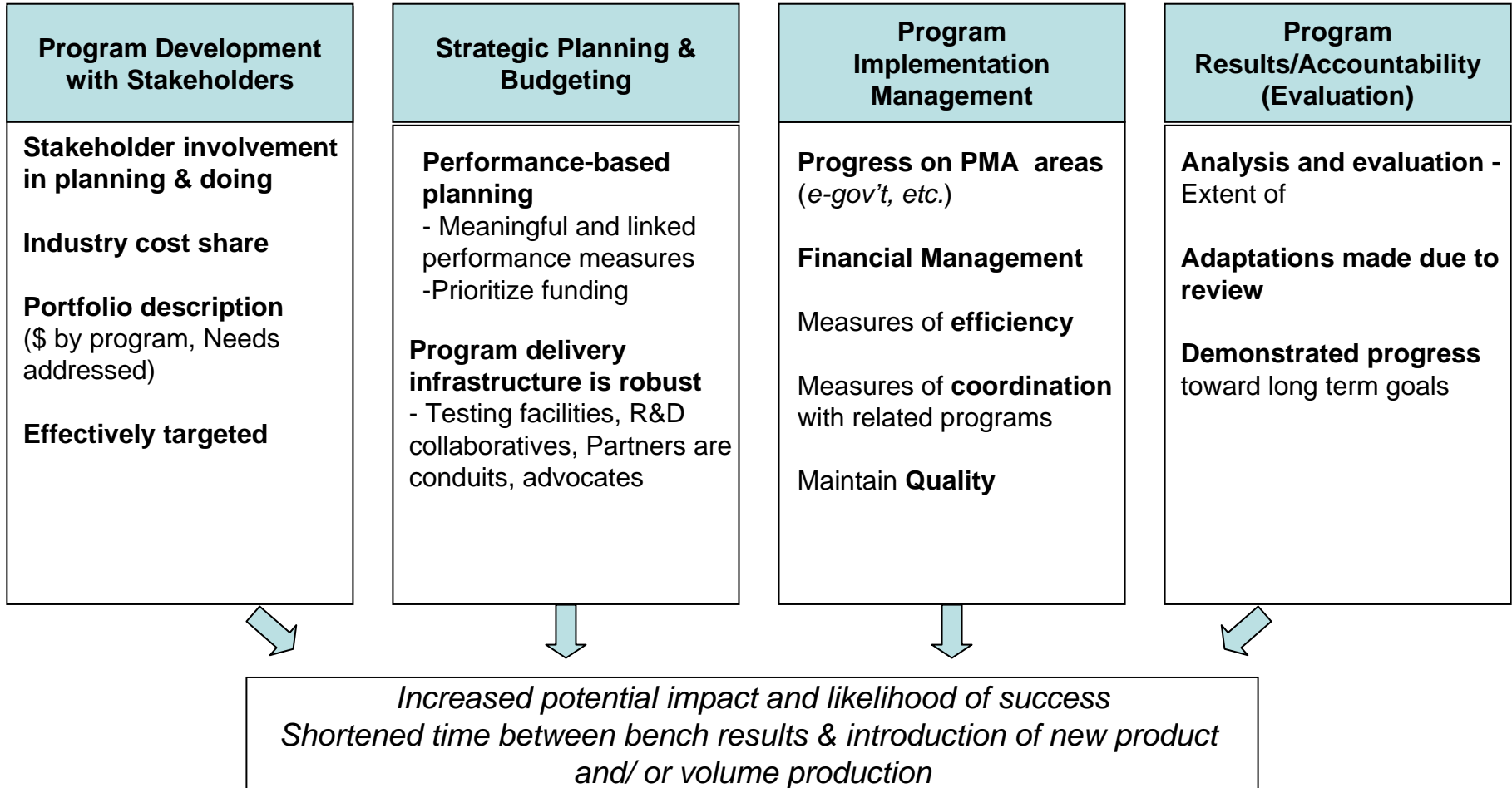
Wanted: Goals and Metrics That Cascade

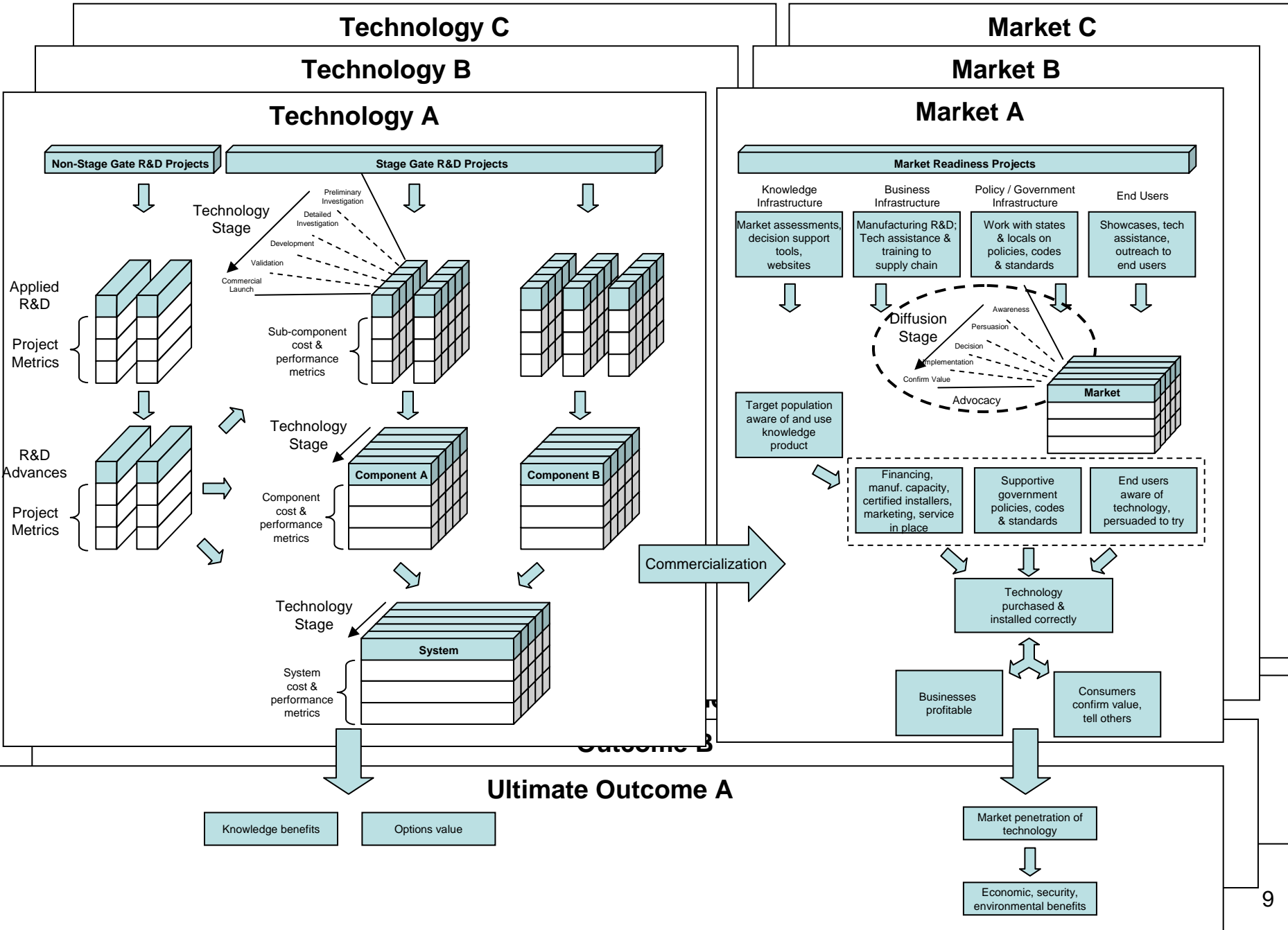


Measurement framework includes 5 inter-related areas that will provide useful data



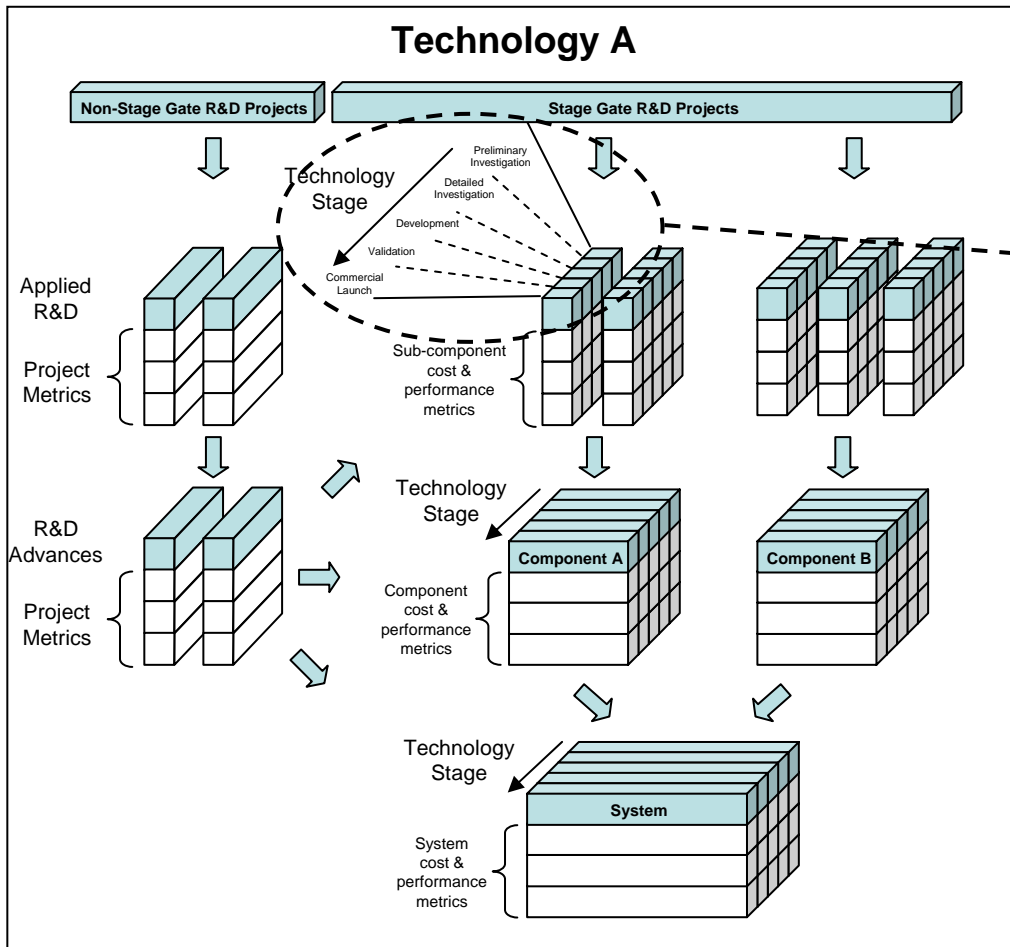
Program Management measures address Program Assessment Rating Tool





Generic Technology Readiness Logic

Generic Logic



Two tracks

- Stage-gate
- non –stage gate

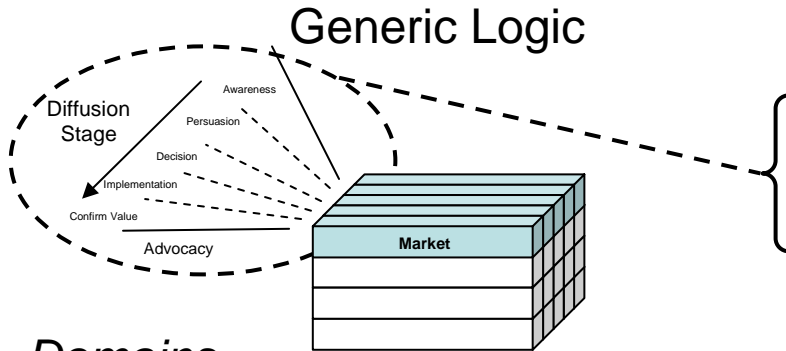
Track status, progress through, contribution to stages leading to commercial launch

- Sub components
- Components
- Systems

Describe

- technical improvement opportunities
- research pathways
- Performance and cost goals

Generic Market Readiness Logic

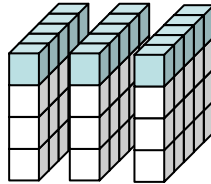


Track status, progress through, contribution to Diffusion stage (Rogers)

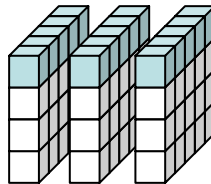
- by target group
- Adding replication, sustainability

Domains

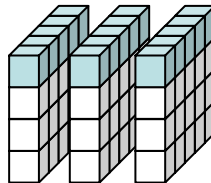
Business Environment



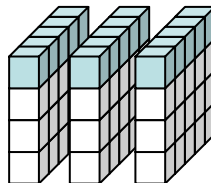
Knowledge Environment



Policy, Government Environment

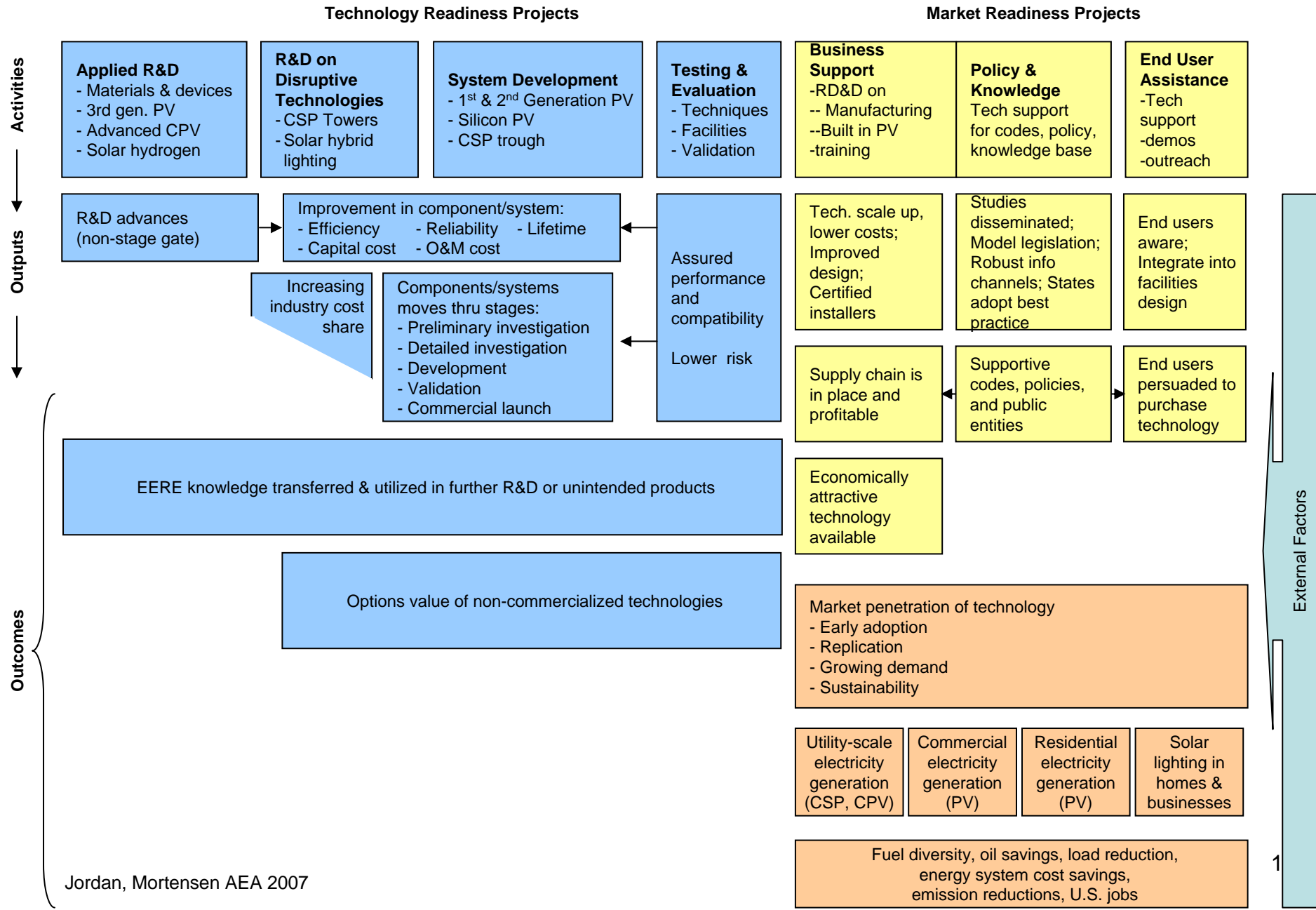


Technology End Users



- Manufacturing
- Distribution, installation, service
- Financing availability
- Knowledge of technology, market
- Decision support tools
- Communication delivery mechanisms
- Incentives, assistance from
- Policy, codes
- Government entities
- Adopter groups (innovator, early adopter)
- Market characteristics (who is served)

Example of Logic Flow for a Program



Summary and Conclusions

These generic logic models

- Cover all major aspects of EERE performance
- Show linkages from activities to outcomes
- Provide templates for comprehensive, more detailed logics at program level
- Suggest how to link performance within and across levels of the organization