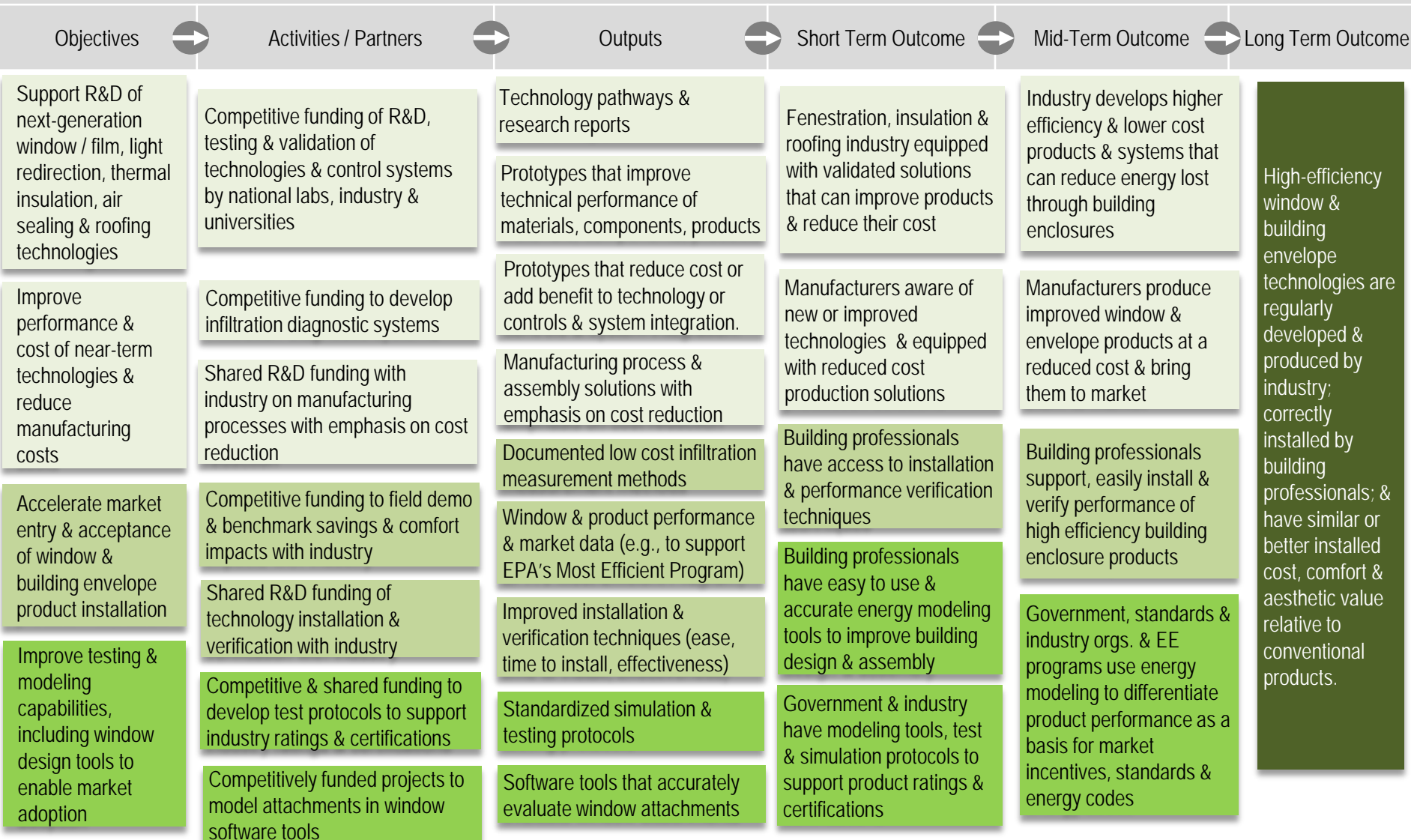


The Windows and Building Envelope Sub-Program develops and accelerates next-generation technologies & tools that reduce the amount of energy lost through building enclosures; contribute to improved occupant comfort; and have low product and installation cost.

*External Influences:* DOE budget, Spin-off products, Energy prices, Private sector R&D, Market incentives, Legislation / Regulation





# Windows and Building Envelope Research and Development Logic Model

OBJECTIVE	ACTIVITIES	KEY OUTPUT	SHORT-TERM OUTCOME	MID-TERM OUTCOME	LONG-TERM OUTCOME
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Develop next-gen tech

Performance & infiltration R&D  
Cost reduction R&D

Tech reports  
Next-gen prototypes  
Cost reduction methods

Improved materials  
Manufacturing improved

Lower-cost, more efficient products

Accelerate market entry

Installation R&D  
Test, demonstrate & benchmark

Installation techniques  
Performance & market data

Techniques & data accessible

Industry supports efficient products

Improve modeling tools

Develop test protocols  
Improve software tools

Standardized test protocols  
Comprehensive modeling tools

Tools aid product rating & building design

Tools enable incentives and codes

Advanced windows & envelope tech and tools in the market

- EXTERNAL INFLUENCES**
- DOE Budget
  - Spin-off Products
  - Market Incentives
  - Legislation / Regulation
  - Energy Prices
  - Private R&D