

ET Summit 2019

Presented by



How Technologies Move Through the Framework

A Binational Perspective

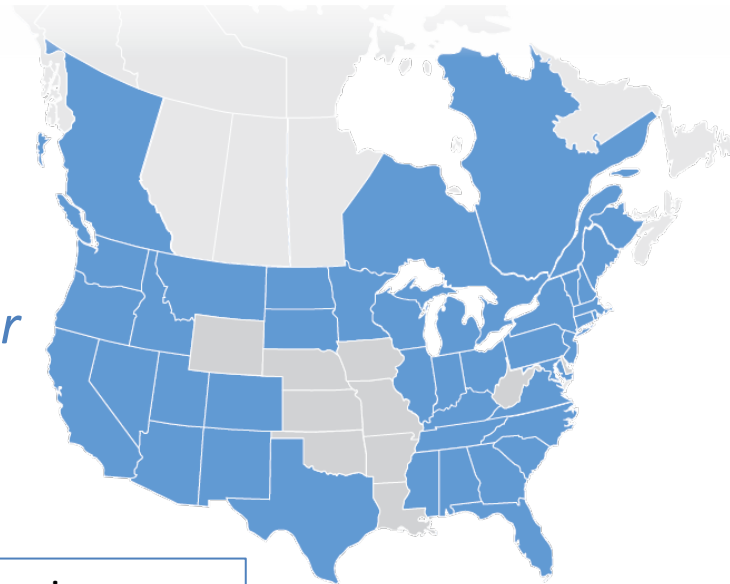
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Consortium for Energy Efficiency (CEE)



- CEE members administer ~80% of \$9B in EE and DSM budgets
- CEE members serve over 102 million electric and 52 million natural gas customers

- *Together, CEE members accelerate development and availability of EE products and services for lasting public benefit*



Blue-colored states and provinces are where CEE members are located.

2019 CEE Emerging Tech Collaborative (ETC)

- ▶ Ameren Illinois
- ▶ BC Hydro
- ▶ ComEd
- ▶ Con Edison
- ▶ Consumers Energy
- ▶ DTE Energy
- ▶ Efficiency Vermont
- ▶ Enbridge Gas
- ▶ FortisBC
- ▶ Natural Resources Canada
- ▶ Northwest Energy Efficiency Alliance
- ▶ PSEG Long Island
- ▶ Sacramento Municipal Utility District
- ▶ San Diego Gas & Electric
- ▶ SoCalGas
- ▶ Southern California Edison
- ▶ Southern Company
- ▶ United Illuminating
- ▶ Wisconsin Focus on Energy
- ▶ Xcel Energy

Shared Objectives

Local ETC Member Programs

- Accelerate program or market adoption of EOs with high energy benefits potential by bridging the gap between R&D and meeting the *criteria for compelling energy program and market adoption*
- *Reduce the risk* that customers or energy programs invest in EOs that do not deliver on expected benefits

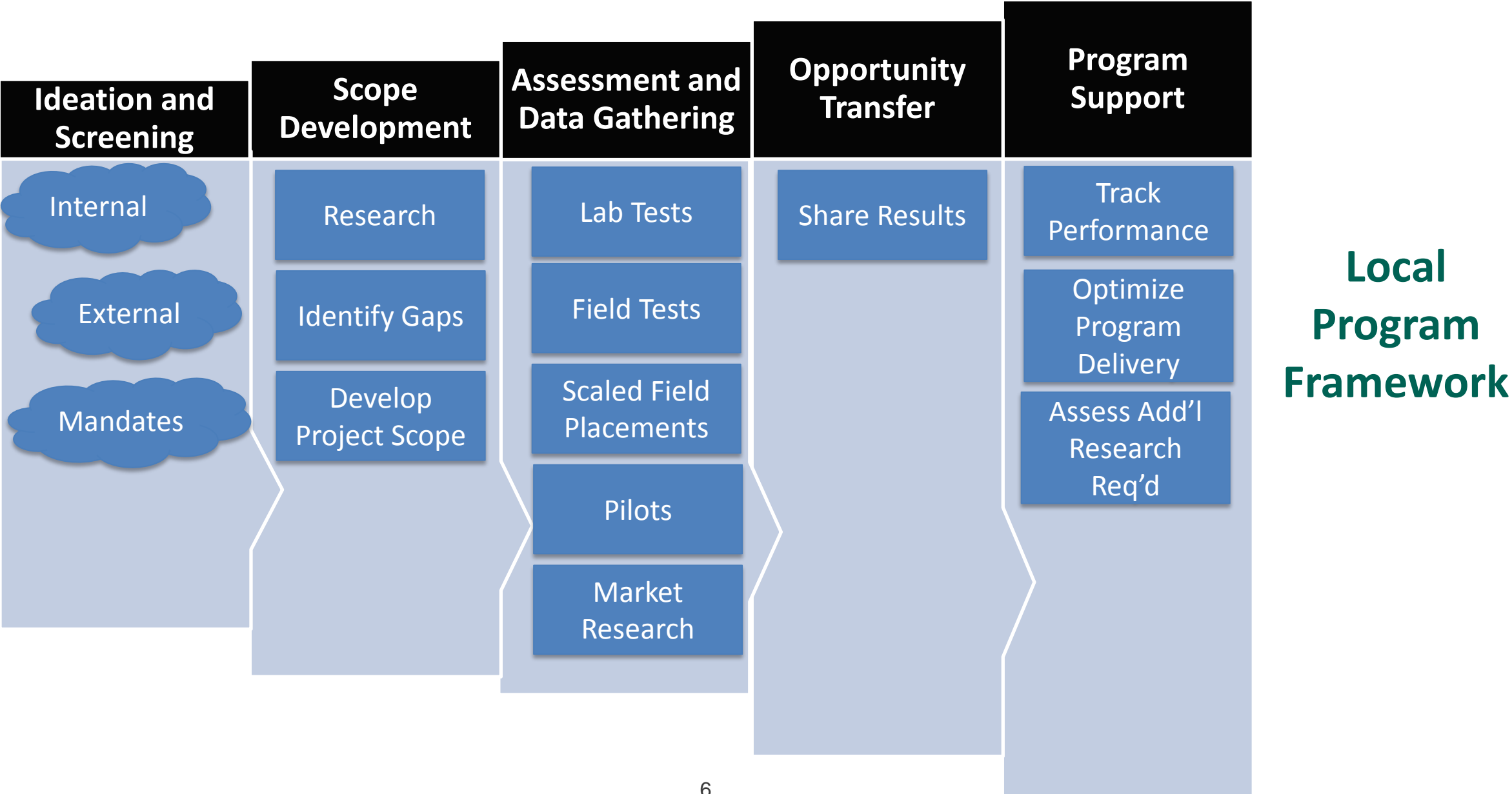
Binational ETC

- Accelerate voluntary consideration and uptake of **impactful binational EOs** among CEE members and customers
- Increase the effectiveness of individual EO programs by sharing information and expertise

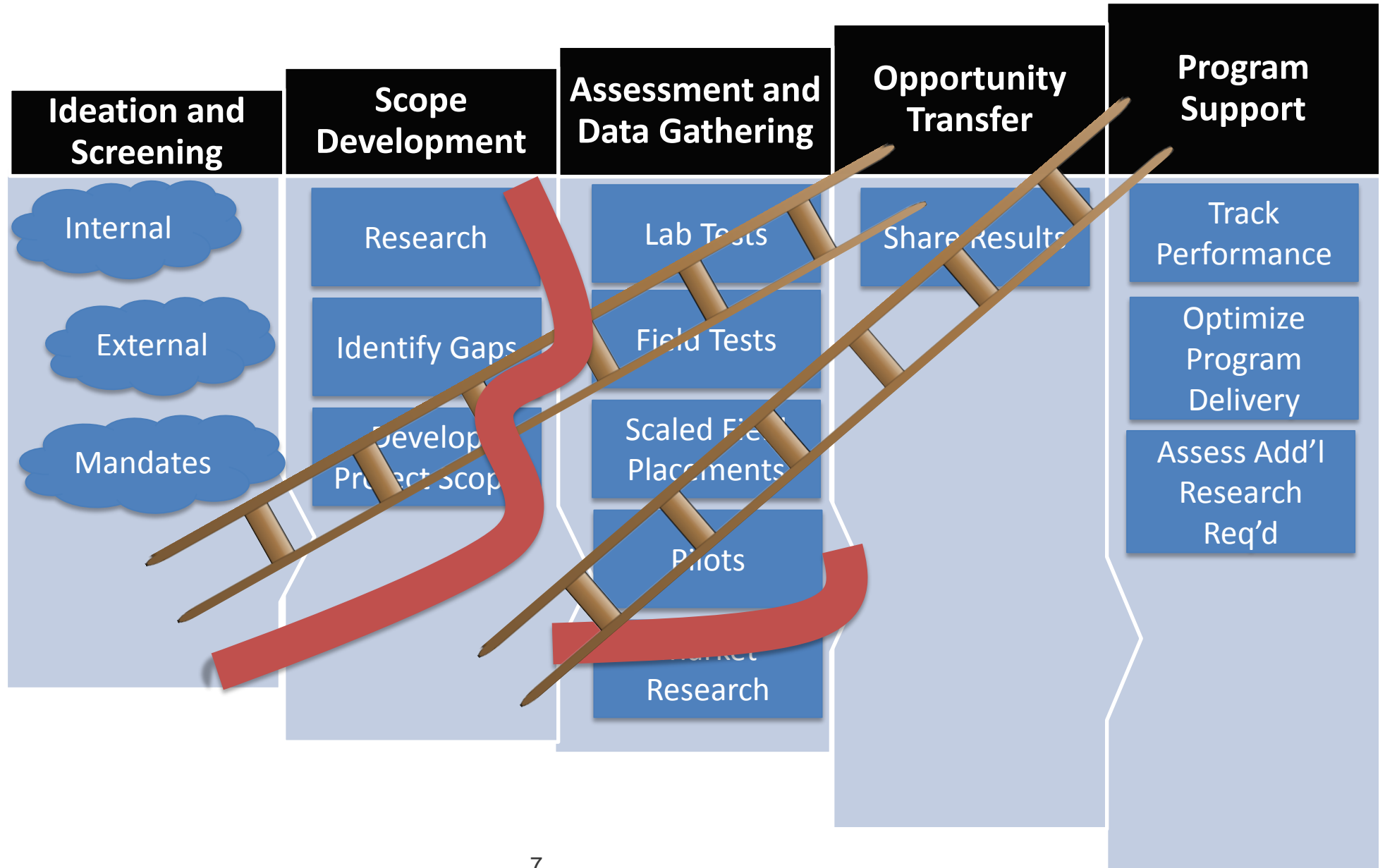
Challenges

Organization	Fuel Type		IDSM Focus Level					Technology Status Focus Level			Market Status Focus Level			Program Implementation Status Focus		
	Electric	Gas	DR or Load Management	Energy Efficiency	Renewables	Storage	Transportation	R&D	Demo	Deploy	None	Enabled	Actionable	Inadequate	Emerging	Implement
EO Program A	x	x	○	●	○	○	○	○	◐	●	○	◐	●	○	◐	●
Program B	x		●	●	○	●	◐	◐	●	◐	◐	●	◐	◐	◐	●
...	x		◐	●	○	○	○	○	◐	●	○	◐	●	○	◐	●
Program Z	x		●	●	○	○	◐	○	◐	●	○	◐	●	○	◐	●

- Leveraging each other's efforts: Nomenclature, cycles, processes, trust

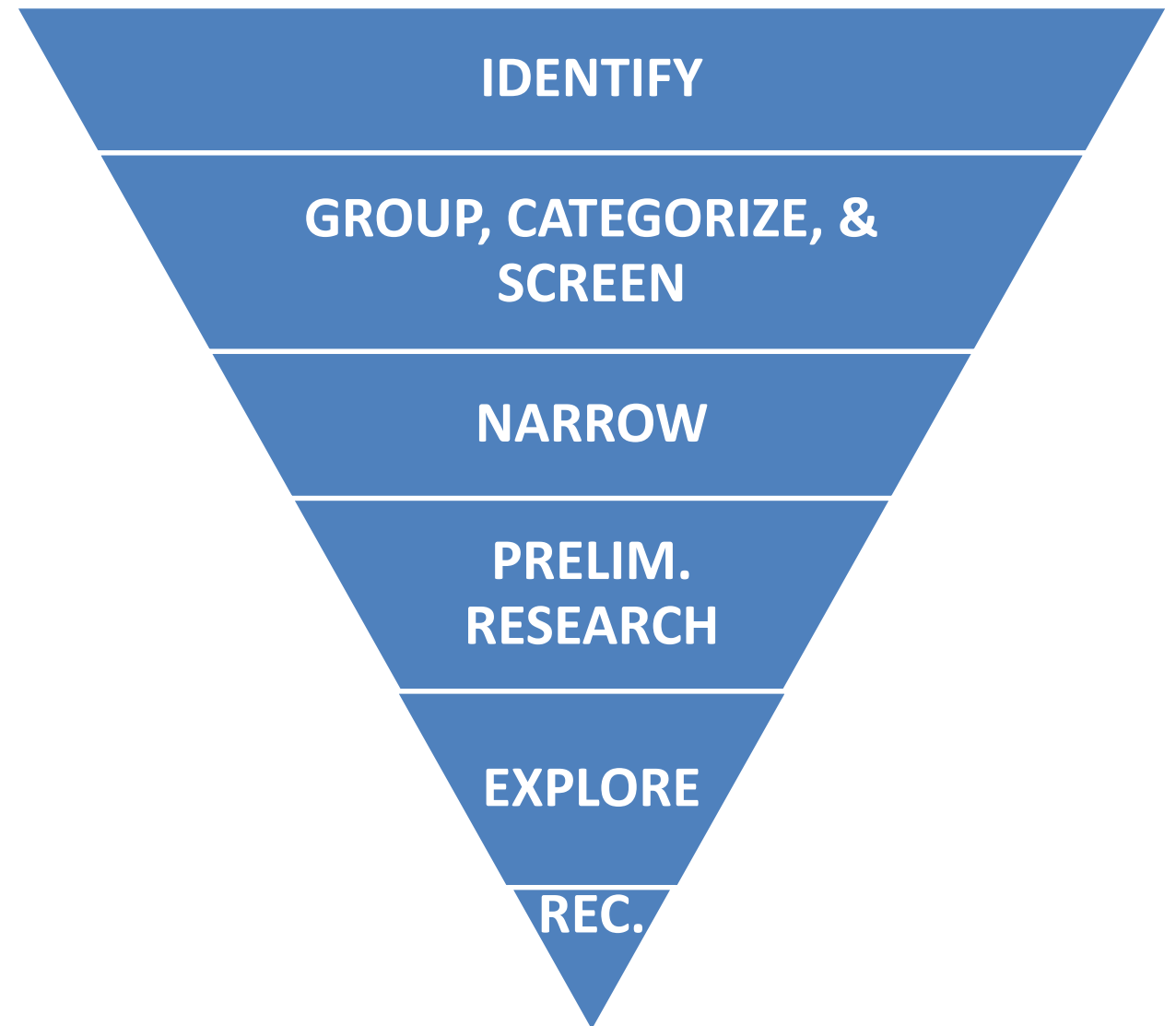


**Linear is
Not
Linear**



Binational Consortium Framework

- Known, established timing for each step
- Progressively more rigorous, agreed-upon considerations
- Multiple perspectives: EO program managers, portfolio managers, program designers, subject matter experts, program directors



Screening, Scoping, and Transfer Questions

- **TECHNICAL:** Energy savings, utility systems benefits; compared to what; safety; data; risk
- **MARKET:** Size, growth potential over time, speed of growth potential; barriers related to manufacturing, distribution, installation, and cost barriers; compared to incumbent; risk
- **CUSTOMER:** How compelling; barriers; satisfaction data
- **PROGRAM IMPLEMENTATION:** Barriers; data demonstrating potential impacts to participation or program costs
- **FIT:** What is needed? Timely? Resources available? Locally appropriate? Map to strategic goals?

- Got EOs? How to Engage
 - Individual EO programs
 - Binationally

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