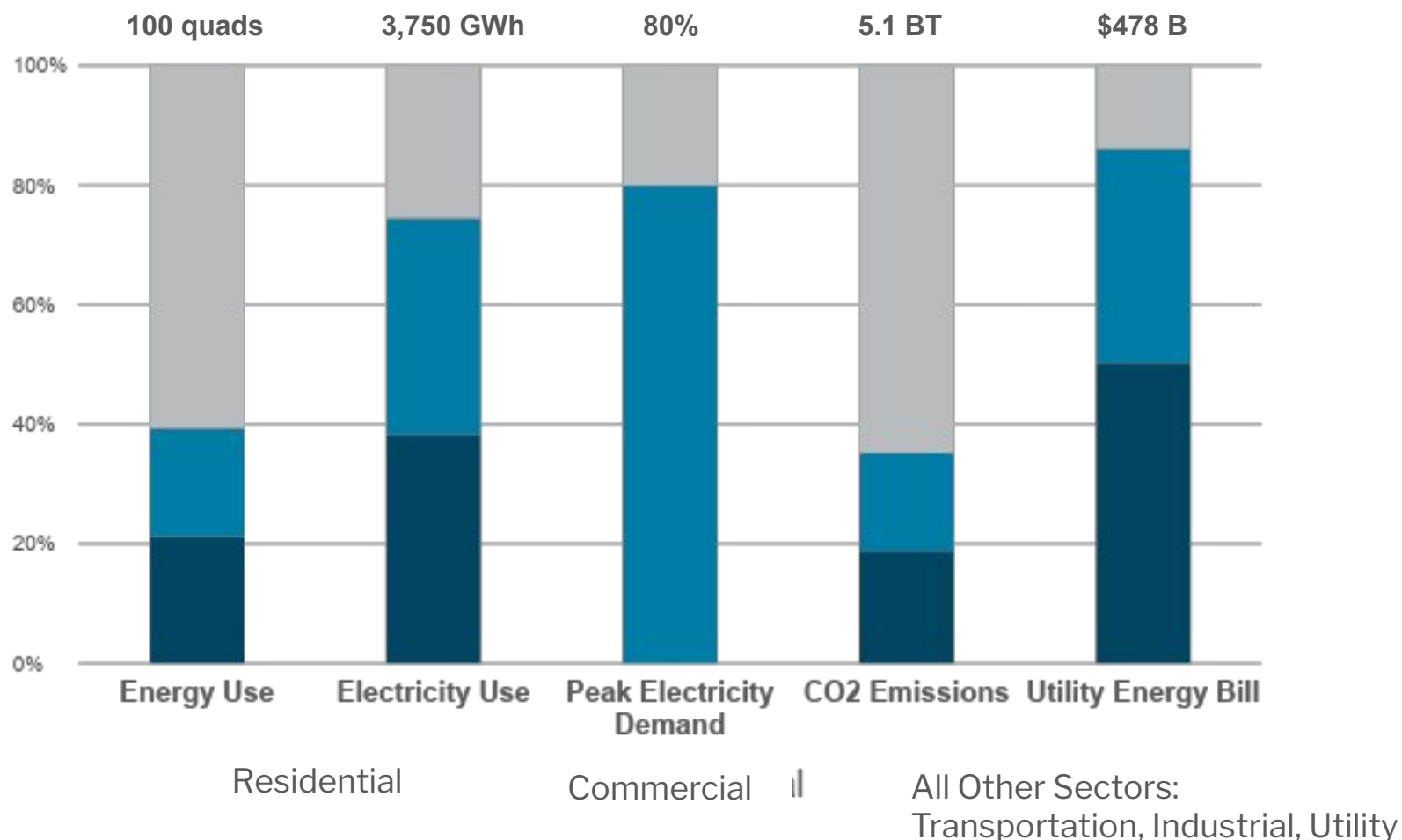


# Buildings are largest sector of US energy economy



- ✓ 120+ million buildings in the U.S.
- ✓ More than 50% at least 40 years old

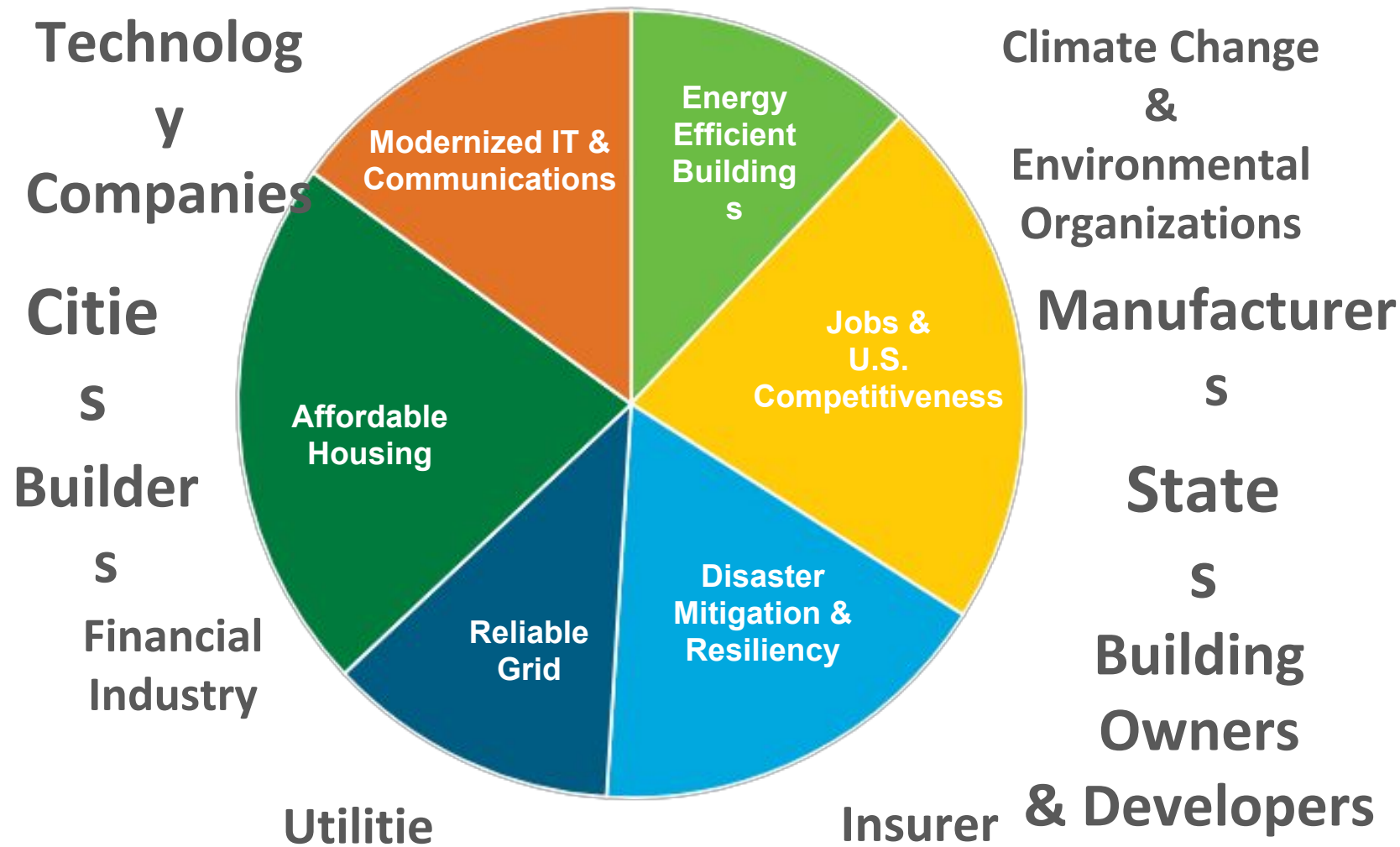


There's no easy, fast, cost-competitive way to  
**IMPROVE** or **BUILD** deeply **ENERGY EFFICIENT** buildings.

Labor-intensive building practices  
Underinvestment in innovation  
Fragmented products & service delivery  
Little automation, digitization  
Inconsistent performance  
Insufficient workforce

**Labor productivity in construction worse than post WW2**

# Solutions MUST address multiple needs...



...and capture the interests of many

# We Need Disruptive Innovation

## Why was the iPhone Transformational?

- ✓ It didn't just give us what we thought we wanted. It convinced us to want more...created value...not just functional, but emotional and social.
- ✓ It addressed (or created) a “need” that most consumers didn't know they had.
- ✓ A “need” that translates today into \$1000 phones – even though calls drop more frequently than they did with landlines in 1970s.
- ✓ Who could predict that people would want their phones to be cameras? Allow them to surf the net, read a book, play games, obsessively “connect” with friends?



# DOE's Advanced Building Construction Initiative

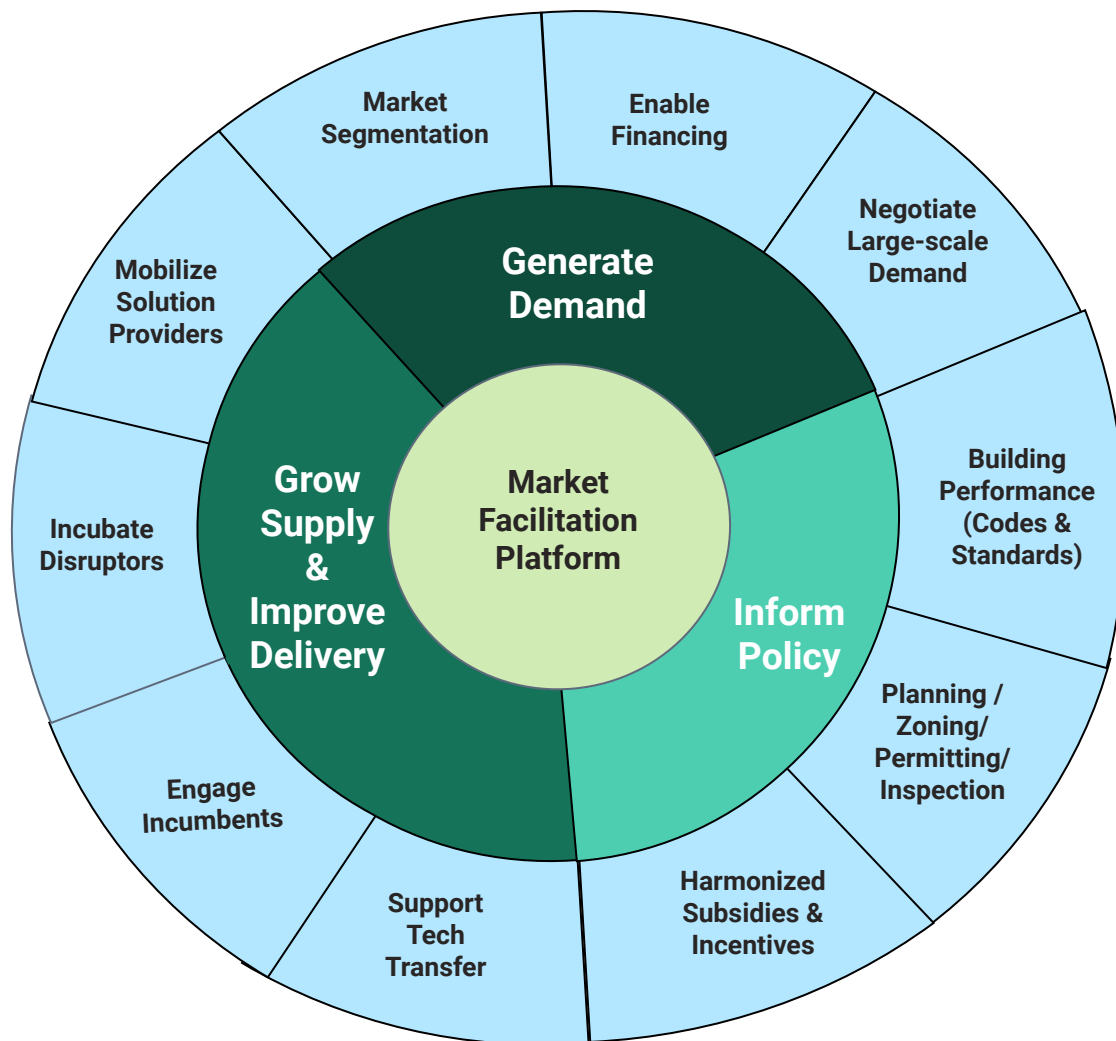
*Driving innovation, matching investors and technology companies with building owners and*

- R&D focused on developing transformative technology packages, not incremental improvements
- Reduce risk and accelerate tech to market
- Create regional/local solutions that account for differences in building stock, workforce, and other factors



**Ultra-Efficient** Retrofits & New Buildings  
**Fast** Construction Timelines  
**Affordable** Retrofits & New Buildings  
**Desirable** Retrofits & New Buildings

# ABC Collaborative: Pulling the Pieces Together



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