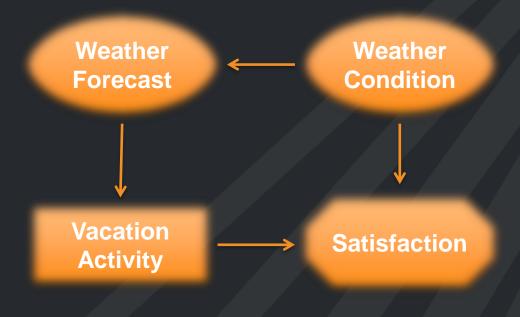


# The Soft Costs of Solar Deployment

Connecting People with Data, Tools and Skills



#### **Value of information**



\$\$? = Peak Season Pricing



## Total PV System Price, by Sector and System Size (first half of 2012)



#### DATA, TOOLS AND SKILLS



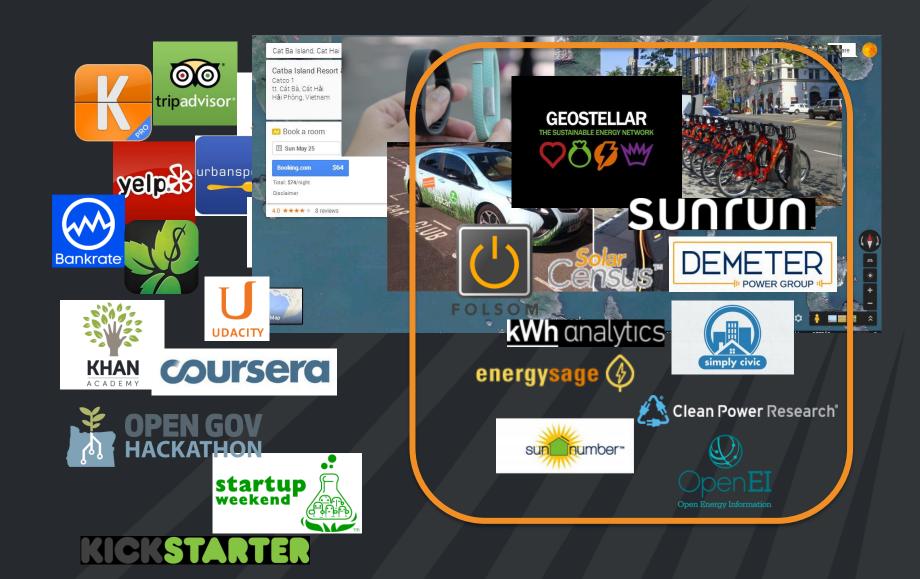
Engineers
Installers
Utilities
Finance
Real Estate

State and Local leaders
Code officials
Consumers
Entrepreneurs











# **Empowering Leaders & Decision Makers**

- Rooftop Solar Challenge 1&2
- Solar Outreach Partnership
- National Lab Analysis and Assistance
- Solar Market Pathways

#### **Harnessing Data**

- Solar Energy Evolution and Diffusion Studies
- University, Private and Lab developed tools
- SunShot Incubator

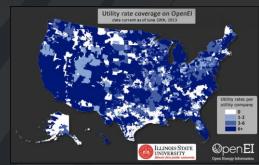
#### **Training Innovators**

- Solar Instructor Training Network
- Grid Engineers for Accelerated Renewable Energy Deployment
- Solar Utility Networks Replicable Innovations in Solar Energy

#### **Finance & Business Innovation**

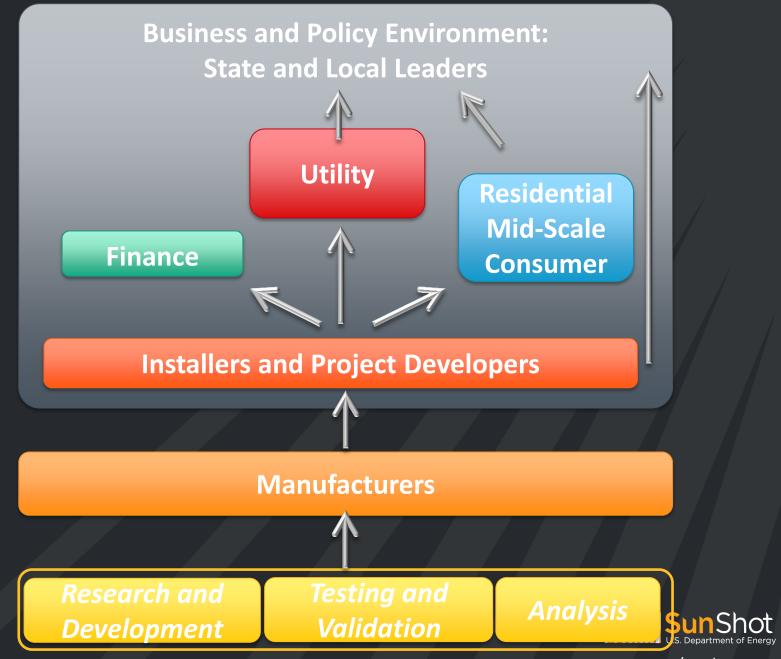
- Advanced Financing
- Solar Access to Public Capital
- Real Estate Valuation
- Community and Shared Solar

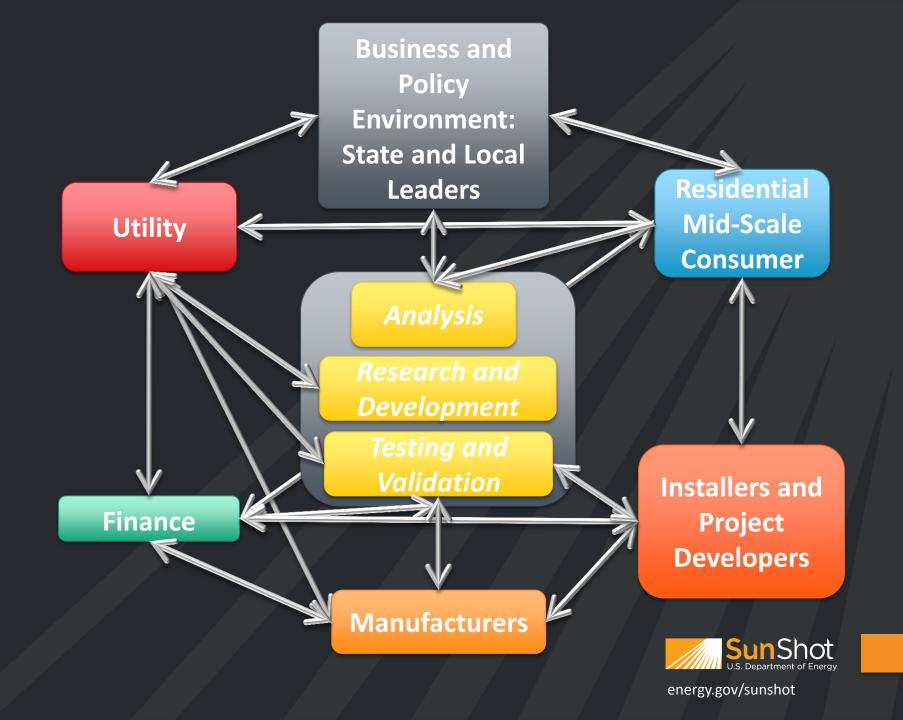












Identify
Gaps in
Data, Tools,
Skills



Stakeholder
Engagement &
Communication
Networks

Test, Analyze, Aggregate



Create
Materials,
Products,
Curriculum



#### **Tuesday**

1:30-3:30pm Soft Costs Interactive Breakout Laguna A & B

#### Wednesday

10:45-11:45am

Open Innovation: SunShot Catalyst & Next Generation Avila A & B
 Government Prizes

All Solar is Local
 Laguna A & B

#### 1:15-2:15pm

• The New Science of Soft Costs: Tutorials in Big Data, Laguna A & B Social Physics, and Randomized Pilots

Business Innovation in Solar: Thriving Beyond Incentives
 Avila A & B

• Pitch for Solar San Simeon A & B

#### 2:30-3:30pm

The Next Frontier for Solar Deployment: The Mid-Size Market Laguna A & B

Solar Securitization: Opportunities and Challenges
 Avila A & B



#### Wednesday -Thursday

5:00pm-5:00pm SunShot 24-hour Hackathon

**Pacific D** 

#### **Thursday**

9:30-1:00pm

 New Ideas for Seeding your Solar Marketplace: Pilot Programs and Embedded Experiments Avila A & B

#### 10:30-2:00pm

Recognizing Leading Solar Communities

**El Capitan** 

Natural Allies: Training Professionals who Impact the Solar Huntington A, B & C
 Industry







### **THANK YOU!**

Elaine Ulrich, Ph.D

Elaine.Ulrich@ee.doe.gov