



# WaterSense® **Water Data & Tools**

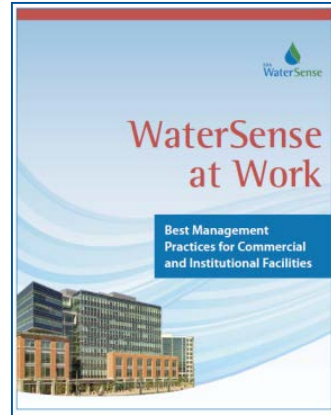


July 17, 2018

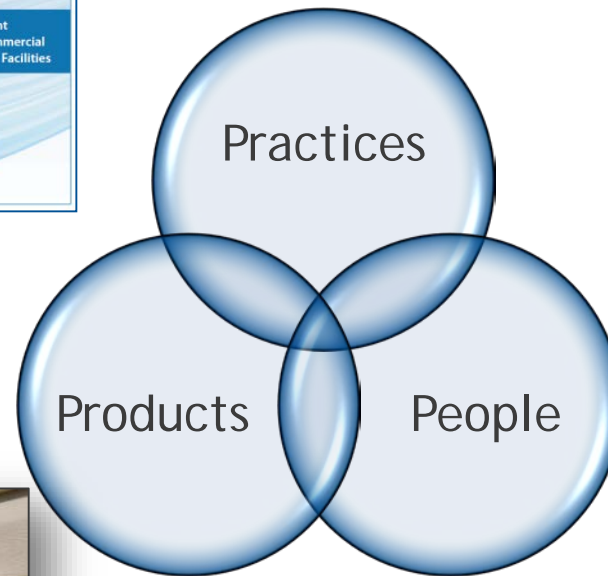
Jonah Schein

US EPA- WaterSense Program

# What is WaterSense?



Actions that can be taken  
to reduce water use -- at  
home, outdoors and at  
work



Fixtures and  
technologies save  
water



Partners reach users to  
change behavior



# WaterSense & ENERGY STAR



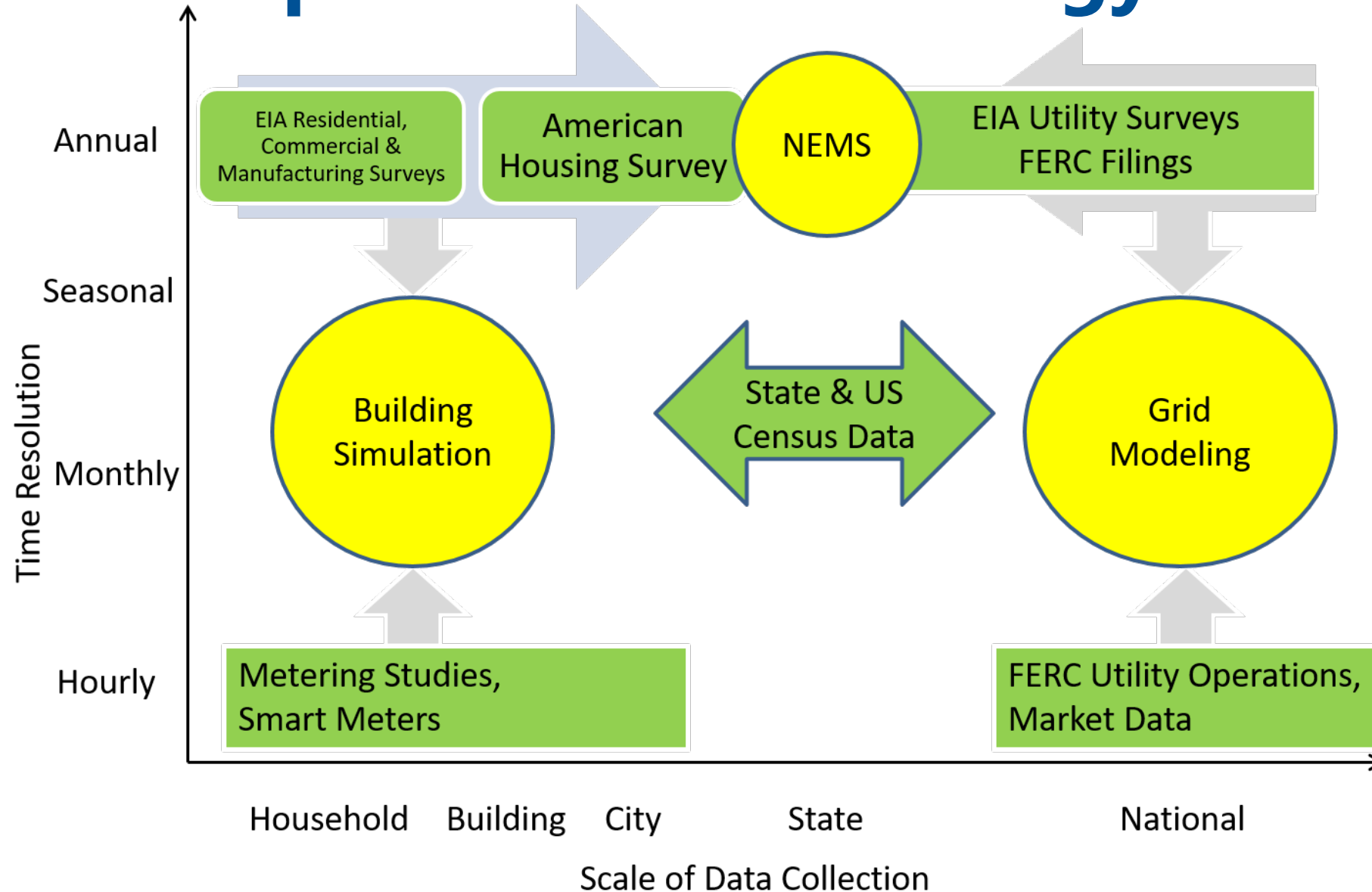
WaterSense was conceived as a “voluntary labeling program similar to ENERGY STAR”

- Voluntary labeling programs require:
  - Achieving significant market share/influence
  - Maintaining the integrity of a label
  - Accurately measuring the impact of the program
  - Receiving significant support for stakeholder groups
    - Manufacturers
    - Utilities
    - Governmental agencies

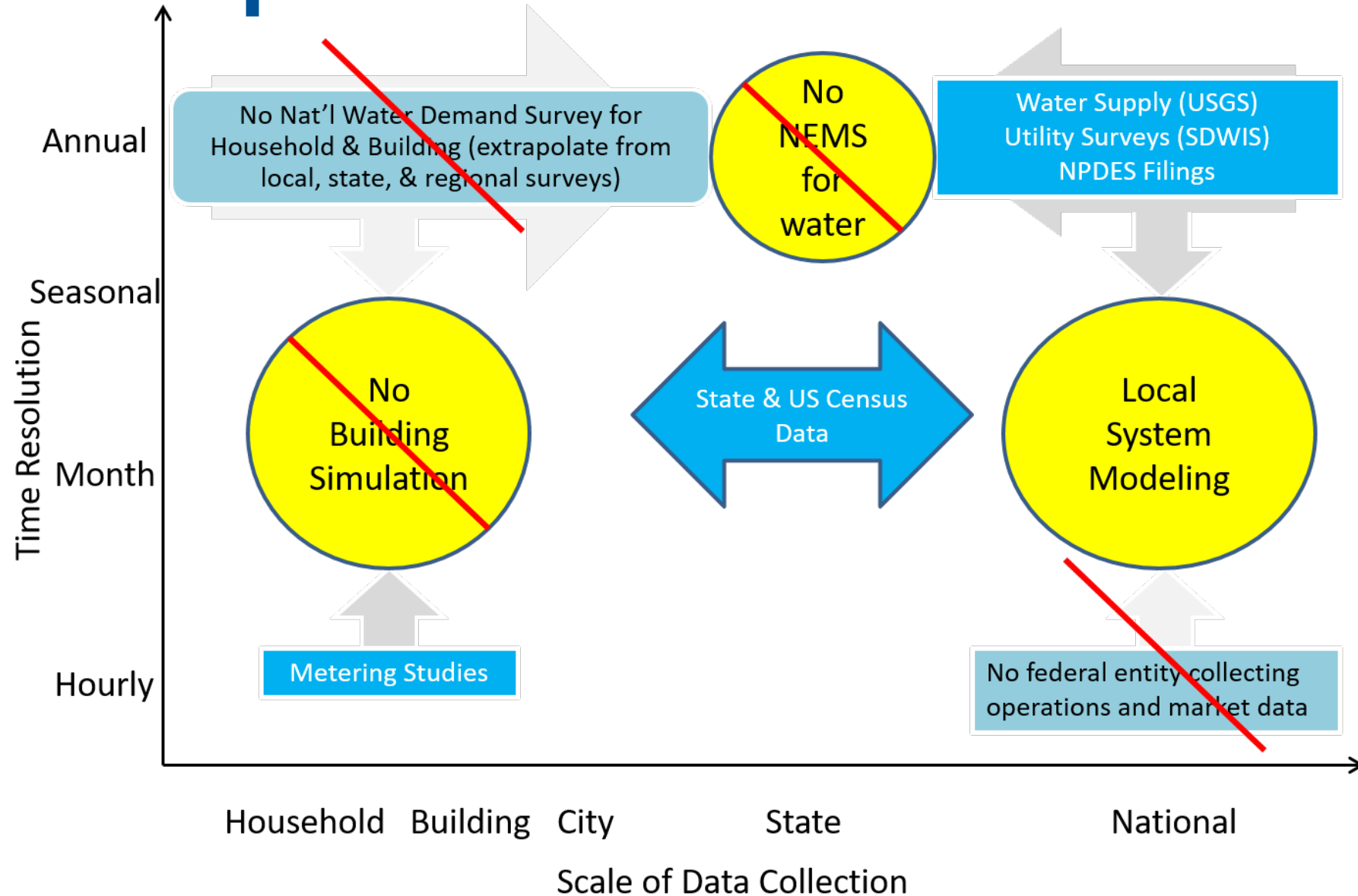


Some of these goals are substantially harder for water!

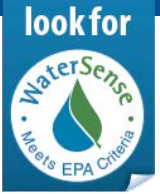
# Scope of Available Energy Data



# Scope of Available Water Data







# Components of EPA's Labeling Programs



- ENERGY STAR Certified Product
- ENERGY STAR Certified Homes
- Commercial Buildings: Portfolio Manager 1-100 ENERGY STAR score with Certification Option
- ENERGY STAR for Industrial Plants

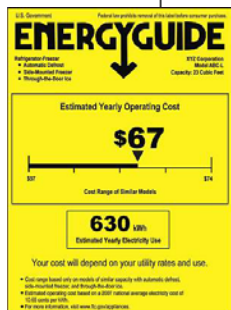


- WaterSense Labeled Products
- WaterSense Labeled Homes
- EPA Water Score for Multifamily

# Products



- ENERGY STAR Certified Product
  - Covers more than 50 product categories
  - Are commonly based on analysis from DOE appliance efficiency program
    - Established by congress in 1975
    - Appliance efficiency program addresses 90% of home energy use and 30% of industrial energy use
  - Yields easy quantification on both the product and program level



- WaterSense Labeled Products
  - Covers 8 product categories
  - Based on industry standards where available
  - Often requires us to create our own test methods and performance standards
  - Plumbing products are technical covered by
  - Lack of national impact assessment makes tracking the program's impact more difficult

# Homes

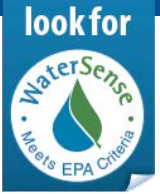


- ENERGY STAR Certified Homes
  - Usually utilize an energy modelling/rating software (HERS, title 24 modelling) along with additional measures
    - Professional requirement
    - Other performance elements
  - Creates a flexible set of criteria
  - Easily quantifies and communicates the impact



- WaterSense Labeled Homes
  - Use a mix of prescriptive, performance, and professionals requirements
  - Difficult to quantify (on consumer and program level)
  - Evaluating use of tools such as WERS and HERS H2O in new version currently under development





# Commercial Buildings/Facilities



- ENERGY STAR Portfolio Manager
  - Widely used throughout the industry
    - 40% of commercial building stock
  - Generates a 1-100 scores with certification available for properties scoring 75 or better
    - Applies to 21 different types of properties
  - Benchmarking models are typically developed using Commercial Building Energy Consumption Survey (CBECS)
    - Conducted at regular intervals since 1979



- EPA Water Score
  - Joint project of WaterSense and ENERGY STAR
  - Applies only to multifamily
  - No certification option
  - Based on Fannie Mae Market Rate survey data
    - Have evaluated additional datasets for

# look for



## Questions?



### Contact

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