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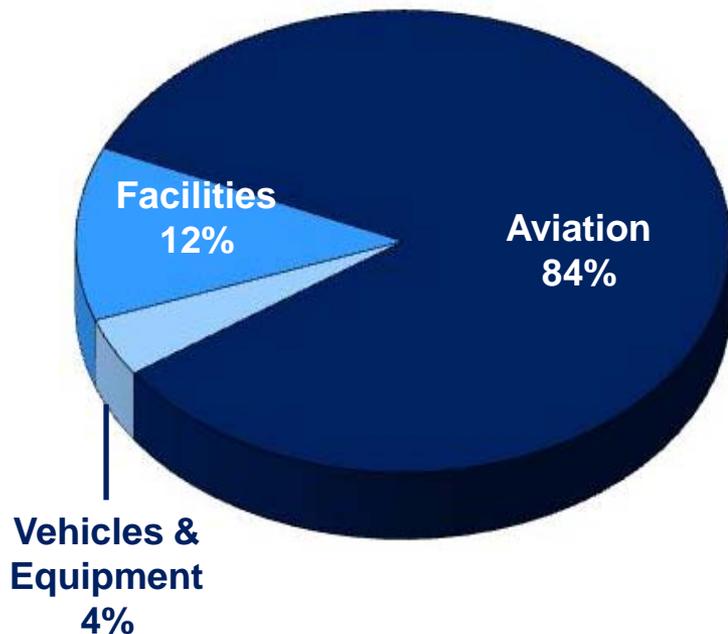
**A River of Energy Solutions**

# Data Rich, Information Poor: Facility Data Challenges *(An Air Force Perspective)*

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# Air Force 2010 Energy Use

## AF Energy Use Breakdown



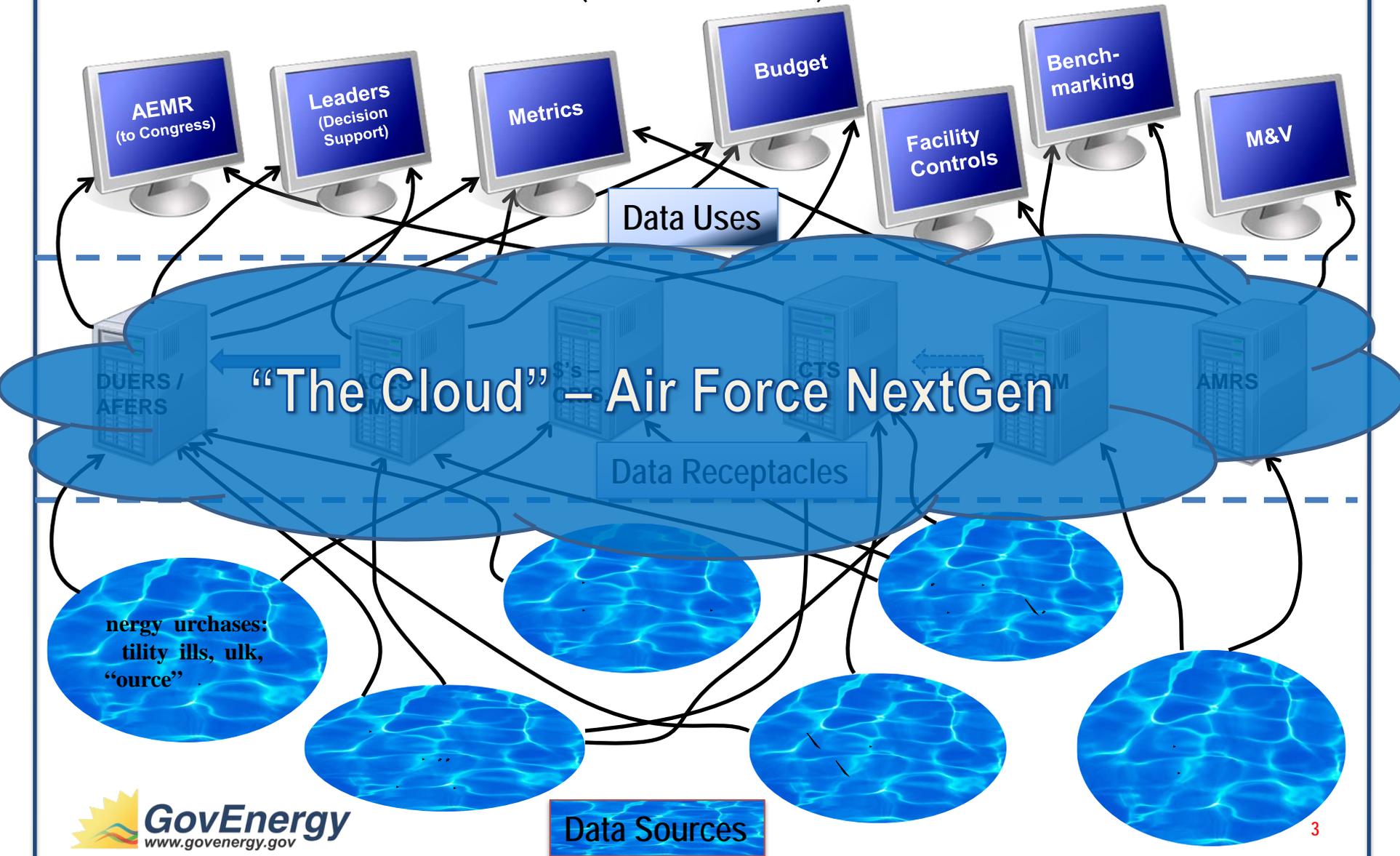
### *But that 12% represents...*

- over 175 medium to large installations,
- located around the world,
- with over 20,000 buildings,
- constituting over 500M reportable SF,
  - from housing to hospitals,
  - data centers to industrial processes,
  - offices to hangars,
  - research to warehouse,
  - 200sf to >1Msf ea.
- consuming 64 TBTUs in FY10,
- with \$1B spent.

***The Air Force spent approximately \$8.2 billion for energy in 2010; an increase of 22% from 2009***

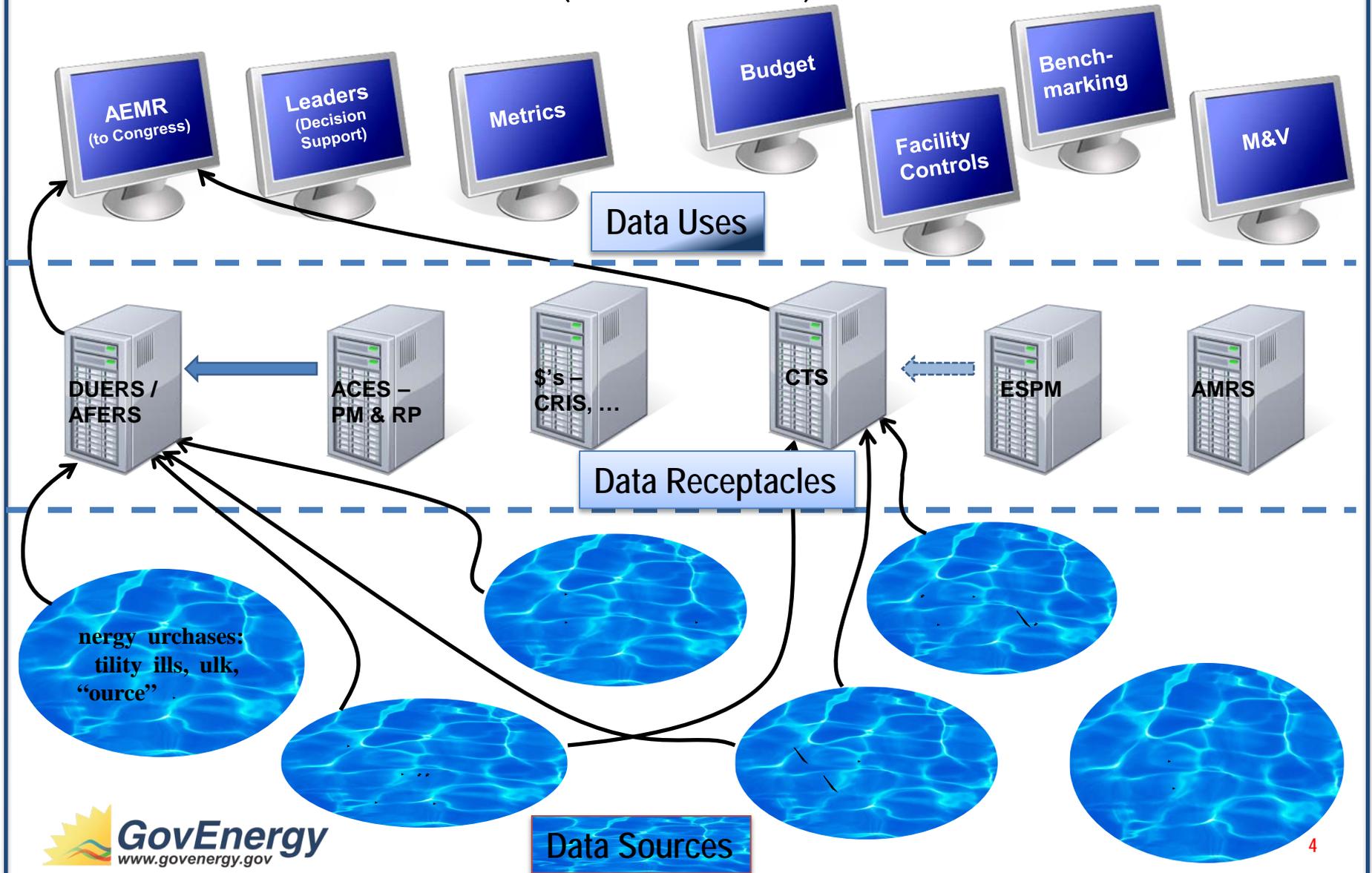
# AF Facility Energy Data

(Sources & Uses)



# AF Facility Energy Data

(Sources & Uses)



# Air Force Energy Data Challenges

- **Data quality & consistency → Credibility!!**
  - Newly published document for utility data reporting (ETL)
- **The AF Mission: “Fly, Fight and Win in Air, Space & *Cyberspace*”**
  - Significant issues and certifications to connect to the AF network
  - What info is suitable for the public??
- **Determining who needs, what data, when**
  - “Raw” versus “Cooked” data
  - Expectation for “Twitter-like” data availability
- **Implementing all this in an austere resource environment**
  - Manpower? O&M (i.e. meter calibration) Quality checks?