



What is an Internet of Energy and how do we get one?

Standards, Disruption, Innovation,
and Accelerating Paths to Market

Toby Considine,
TC9, Inc

William Cox, PhD,
Cox Software Architects LLC

Grid-Interop 2010

Toby Considine

- Participant in developing NIST Roadmap.
- Informational standards for building design, operation, energy use.
- Strategic Technology Consulting in Emerging Markets & Venture Formation



Our plans call for rapid deployment of technologies we don't have yet



One-size fits all approaches must go slow to protect public interest



Open up energy services & management and markets to direct consumer participation.



The Internet of 1980

The on-line world didn't go as
planned

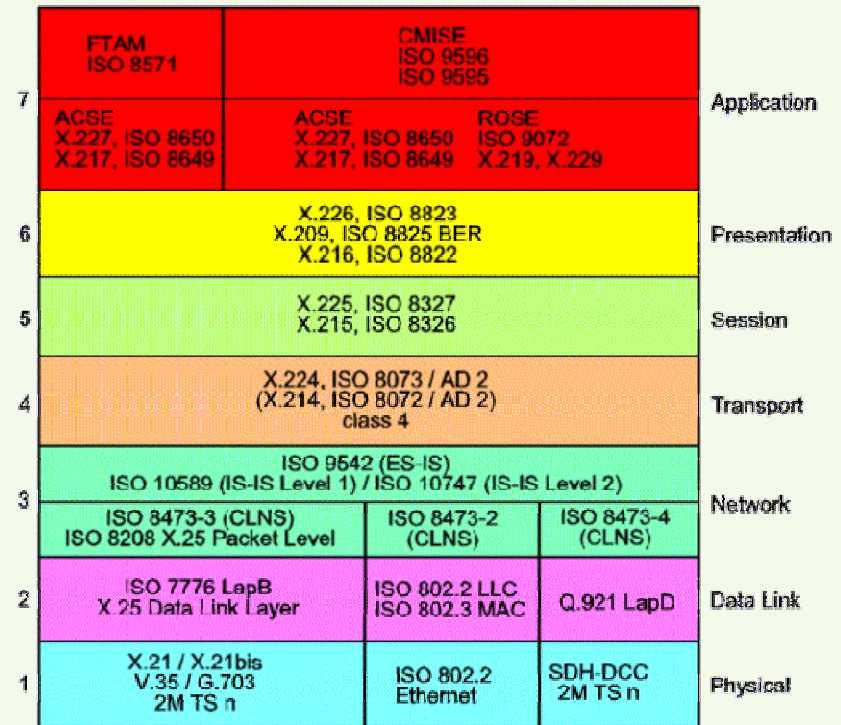
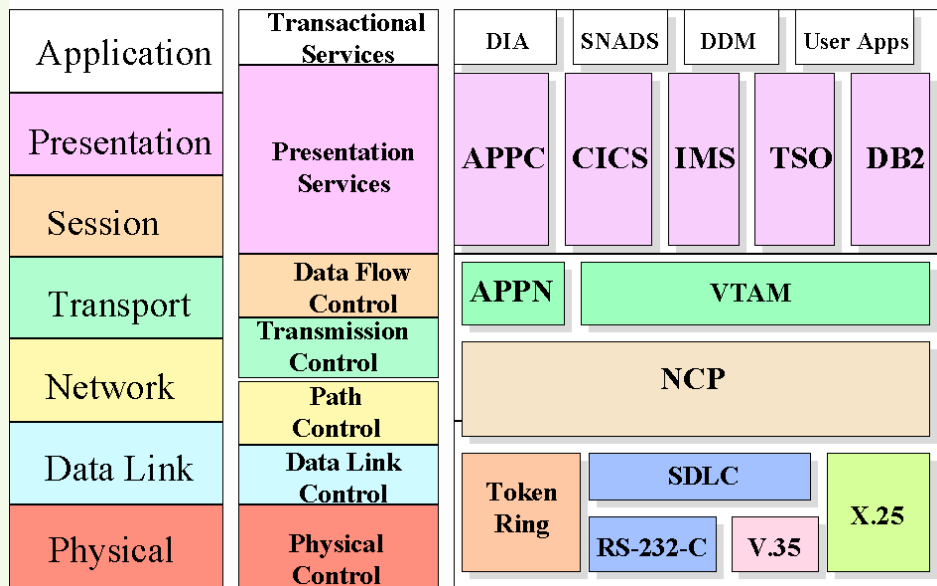


We don't use nationally deployed
common systems



Meticulously engineered soup to nuts architectures were scrapped

System Network Architecture SNA



Remember when OSI was a complete set of specifications rather than a pedagogical model?



Walled gardens were not the future



Grid-Interop 2010



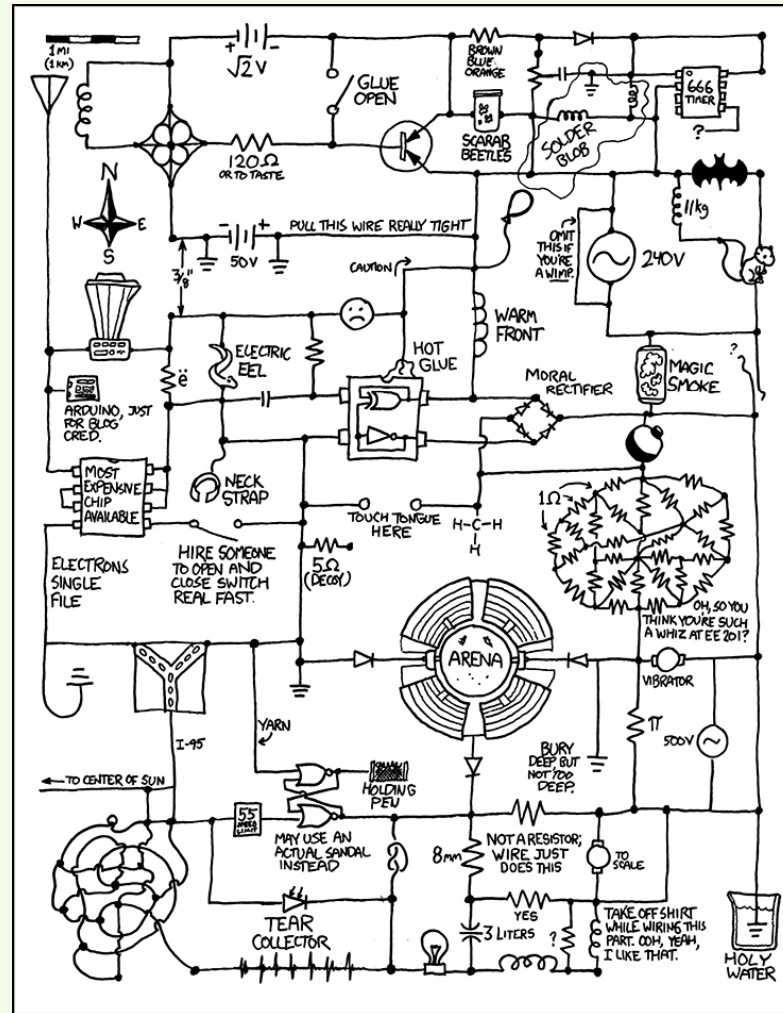
The internet came from unplanned activities



Case law disrupted the planned order



Internet developed using the principle
“Make no decisions before you have to.”



Key technology came from outside of computers & networking



Fail Early, Fail Fast, Fail Cheap, and move on to the eventual winner...

What will lead to more start-ups
being funded?



Integrate at the waist of the hourglass

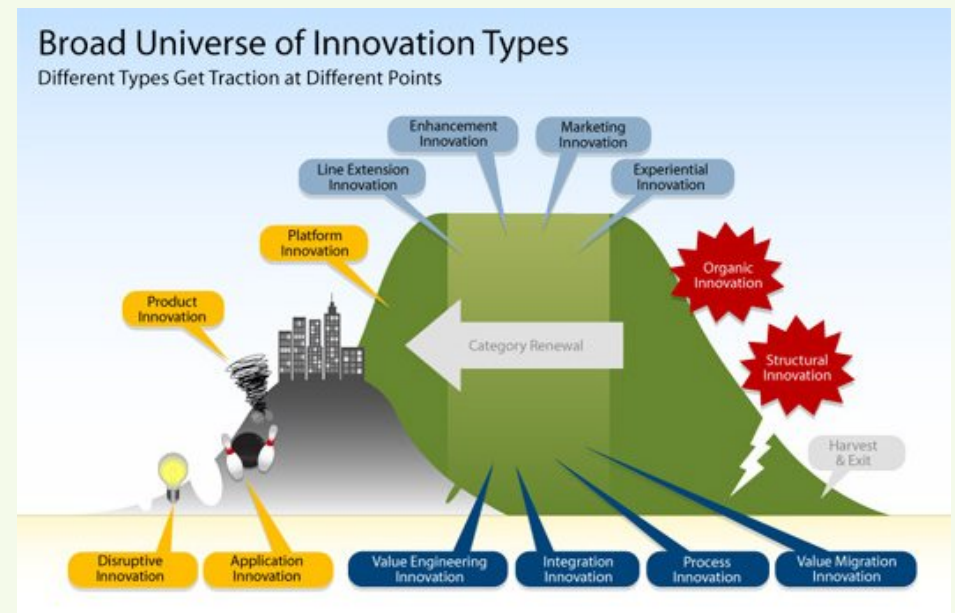
- WS-Calendar
- EMIX
- Energy Interop
- WS-Security

Interfaces not end-to-end



Consumer choice creates markets of early adoption

- Early adopter choices drive innovation
- Don't lock in today.
- Don't block the virtuous cycle



Disintermediation first, intermediation next

- Amazon
- E-Bay
- Gmail
- Facebook



Software and Silicon and Scale will
be the basis for rapid investment



Toby.Considine@gmail.com

www.NewDaedalus.com

Questions

