

Preliminary Thoughts About GENI

Phil Roberts
Motorola Labs
Networks and Infrastructure Research
Lab
Phil.Roberts@motorola.com

Some Hesitations

- Fairly new to GENI really so....
- Questions about Time Horizons
- What is it you're building again? And when?
- IPR rules may be a show-stopper
- Skepticism/Optimism/Range of Possibilities
- What about end devices?
- What's in it for Motorola?

Major Industry Trends that may impact GENI

- The networks are built
- Consolidation and cost reduction are the order of the day
- Innovation is happening in the Internet of today
- So, from a business point of view, what is the upside for businesses offered by GENI?

Key Industry Challenges that GENI might address

- Hardest question
- Research areas articulated for GENI are on target
- Safe networks are a major concern
- Complexity and cost of network operations is a persistent concern

Role of near term prototypes and operational experiments in driving future network design

- Don't forget simulations (probably not a GENI comment per se)
- Don't forget simulated environments
- Why can't we do GENI as an overlay on today's Internet?
- How do the operational experiments relate to massive scale of today's operating networks

Possible Motorola/GENI synergies

- Having said all that, we **are** interested, in the following areas:
- Radio access network architecture and mobile network architecture
- SDR/Cognitive Radio
- “Portable” Packet Processing Engines
- Autonomics/Network Operations
- Safer networks