Internet and Future Internet

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Future Internet

- Breaking off the bondage:
  - Against the Internet Architecture...?
- Backward compatibility
  - Not a requirement
- Clean slate vs Evolutionary
  - Not the real question, not an issue
- Deployability
  - The ultimate valid question

The Internet

- What was so wrong with the Internet?

  - Mobility, security, manageability, dynamic configuration, adaptability, ...

  - The same questions asked around NGI, IPv6

- Are those problems ever solvable?

  - Live with the Internet as it is ...?

- The Internet will be there

  - as an incomplete masterpiece

IPv6

- The same fate with IPv4

  - No fundamental improvement over IPv6 except for the address space

- Not even compatible with IPv4

  - any kind of 'evolutionary approach'?

  - a kind of clean-slate for its own

- Was the address the only problem with the Internet?

  - If not, IPv6 has a tough future.

CCN

- A very interesting paradigm proposal

  - Numbers for telephones

  - Addresses for the Internet

  - (content) ID's for CCN

- Yet to see if it's going to be

  - a replacer of the Internet or

  - just another overlay network on the Internet

The Real Problem

- People still have not figured out
  - what the right Network Architecture really has to be.
- Still struggling in the deep fog
  - With a huge pile of ill-grounded assertions
- What's the Maxwell Equation for the Network?
  - Will there ever be anything like that?
- Need getting back to the basics
  - What are then the basics?

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- Whatever comes of Future Internet

  - Will continue to be called the Internet

- The Internet and Future Internet

  - Synonymous

- FI ==! Open-ended Internet research

- We're on the same boat.

- Drop your students into the deep & dark sea.

  - Let them design networks from scratch.

Be foolish! Be hungry!

- Steve Jobs -