The Internet of Ideas

12 Pecha-Kucha
Or
Research Elevator Pitches

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Key-not

• This is not a retrospective
  – post hoc

• Nor is this a vision thing
  – navel-gazing not my thing

• It’s what I try to do with my students
  – And they did all the real work…
Silver Lining
Heat dissipation
Push to edge
Virtual super-peer
Xen-peer
Address-less-ness
SNA
Rendezvous
Intentional IP
Tweet-based-prefetch
SATNAV based handover
Friend-of-friend
In every packet
Learn your mileu
Spam as Cover Traffic
Steganocodemail
Botnets as onion router
Partial Path Preparation
“Now this is not the end. It is not even the beginning of the end. but it is, perhaps, the end of the beginning.”
Making mpls respectable
Fixing up wireless hops
Cross layer impedance matching
Software Radio in the Cloud
Lots of nearby cpus
Save battery
Use local radio different
Greening Netflix
Postal multicast w/ cache
Real p2p multicast w/ cache
Which pollutes more?
Hippocratic Databases for Social Net Traces
“Do no harm”
Functional dbase
Info-theory query analysis
Bedless Testbeds
Repeatability?
No: reproduce *statistics*.
Predictable experiment is just a design.
Cyclic Levy Flights
Mobility models that explain...
As well as generate...
Realistic traces…
Snakes on a Plane, in 3D!!!
Predict, shadow, trail...
Phone app in the cloud
Not thin client - fast migration
Needs virtualised phones
Snakes/threads
3D: Human, thread, VM
Please don’t blame me...

• ...if it all goes horribly wrong
• One purpose for showing these ideas
  – Is to develop critical faculties
  – But not to select/filter on bogus criteria, e.g.
    • Business case
    • Deployment
    • Other non-technical considerations for which we have no scientific methods
      – psychology, economics, philosophy etc
    • etc
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Backup...

- Power-napping - regenerative braking for CPUs
- Distributed traffic lights on iPhones
- Spread Spectrum Internet Tomography
- Resist TM, C, P and R