

# CFP Activities Moving Forward

Karen Sollins...

and all of you

# Background

- ▶ Sollins talking with companies individually
- ▶ Insight: needs to be interactive
  - ▶ Work on an idea to form appropriate activity
  - ▶ Engage a number of members
  - ▶ Find MIT resources
- ▶ Activities can be
  - ▶ Single paper, series of papers, book...
  - ▶ Working group
  - ▶ Engagement with others outside CFP
  - ▶ Others?

# Executive Session, 9/10

- ▶ Solicited topics from company liaisons
  - ▶ Topics they thought valuable
  - ▶ Were prepared to discuss in the group
  - ▶ Several members responded with a number of topics
  - ▶ Two presented
    - ▶ Roberto Minerva, TI: **0-Touch Networks**
      - ▶ Food for thought, see below
    - ▶ Rich Woundy, Comcast: **Broadband Speed Measurements**
      - ▶ Considered in MITAS, and possibly Interconnections WG

# 0-touch networking

- ▶ Proposed a service model of the future
  - ▶ Assumptions: mobility, small devices, IOT, wireless
  - ▶ Enable incorporation of 3<sup>rd</sup> party services into the service provided by the ISP
    - ▶ Example: IBM wants to provide functionality to a customer in Italy and Singapore. Contracts with TI and SinTel for services to pull together
  - ▶ Enable private customers to contribute resources (storage, computation, data, etc.) to the ISP service
    - ▶ Example: smart phone users have much available storage and possibly data that could be exploited
  - ▶ Enable cross domain international service provision
    - ▶ Example: Italian buys service from TI and could get same service in other countries, working through local service providers

# Why did I say all this?

- ▶ Implies a particular service model
  - ▶ Composition and evolution of new, non-transport services
  - ▶ Different business model with customers
  - ▶ Complex web of negotiated relationships for apparently invisible mobility
- ▶ How to think about it
  - ▶ What “resources” are being provided with what “guarantees”
  - ▶ Control points: where are they and who holds them

# Must understand

- ▶ Resources:
  - ▶ Identity management
  - ▶ Provision of transport, storage and computation: composed from infrastructure and provisioning from under-utilized private resources
  - ▶ New business models
- ▶ Control points
  - ▶ Security/privacy/trust mode: service providers, owners of contributed resources, peering networks for invisible mobility
  - ▶ Multiple regulatory regimes: governments and international organizations
  - ▶ New business models

# Suggestion

- ▶ Each CFP company has at least one and possibly more than one qualitatively different services models “of the future”
- ▶ Consider a survey and comparison
- ▶ How this might work
  - ▶ Involvement of company members
  - ▶ Sollins to take MIT lead
  - ▶ Lead to a white paper, not sure that it would be an ongoing WG