

# ARCADIA

## A Strategic Activity of COST – ICT

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# COST What is COST ?

- Multigovernmental Agreement
  - Created in 1971
  - 9 Scientific and Technical Domains
- Participation
  - 35 COST Countries
  - European Commission
  - International Organisations
  - Organisations from Non-COST Countries on Mutual Benefit Basis
- COST Actions
  - Coordination of research funded otherwise
  - Pre-competitive and bottom-up
  - A tool for networking researchers

# COST How to participate?

- COST Countries:

- "Open Call" with collection dates (March 30<sup>th</sup>, 2007)
- Membership is open to all countries within 12 months of Action approval
  - Just contact your CNC
- After that, approval of MC is required

- Non-COST researchers:

- Should directly contact Chair of the Action
- If "mutual benefit" then official membership
  - MC Approval, DC recommendation, CSO approval

# COST ARCADIA Strategic Activity

- Advanced Research in Communications for Distributed Interconnected Applications
- Focus:
  - Internet of the future
- Aims:
  - Help bridge activities between FP6 and FP7
  - Contribute ideas to FP 7 Work-Programme
  - Produce White Paper on Fundamental Experimental Research
- Outcome:
  - Helped focus institutional research on IoF
  - Close collaboration with FET (now F4) and NSF

# COST ARCADIA Events

- 1<sup>st</sup> meeting in Turin - August 2006
- 2<sup>nd</sup> meeting in Lisbon - December 2006
- Final meeting
  - COST-NSF Workshop - Berlin - April 19-20, 2007
- White Paper
  - Preliminary version available from [www.cost.esf.org/index.php?id=989](http://www.cost.esf.org/index.php?id=989)

# COST ARCADIA White Paper

- Virtualization
- Test-beds federation
- Monitoring
- Security
- Routing

# COST ARCADIA Recommendations

- New models and benchmarking tools
- More software virtualization and routing/computing fusion
- Delay-Tolerant Networks and other emerging networking paradigms
- Multi-level Multi-polar experiments
- Paradigm shift
  - From Simulation to Scientific Experimentation

# COST Conclusions towards IoF

- Fundamental and experimental research are needed
- Multi-disciplinary research to be fostered
- New, heterogeneous, multi-level infrastructures are required
- Reproducible experiments should be sought
- Disruption should be envisaged and accepted
- *Future* is a key-word

# COST Information points

- **ARCADIA**
  - <http://www.cost.esf.org/index.php?id=989>
- **COST ICT**
  - <http://www.cost.esf.org/index.php?id=27>
- **Open Call**
  - <http://www.cost.esf.org/index.php?id=721>
  
- **Me**
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