

# Monitoring and Measurement Cluster



Standardization workshop

31 July 2005

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# Agenda

- | Project Overview and Objectives
- | Project Achievements
- | Standardization Activities in MoMe
- | Programme of the standardization event

# MOME Presentation & Consortium



FP6, IST, Co-ordination Action  
Strategic Objective IST-2002-2.3.1.3 “Broadband for all”  
Jan 2004 - Dec 2005

salzburg|research

Salzburg Research, AT

NEC, UK

Telefónica I+D, ES

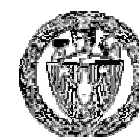
Université Libre de Bruxelles, BE

Budapest University of Technology and Economics, HU

Politechnika Warsaw, PL

Fraunhofer FOKUS, DE

TERENA, NL



*Telefonica*



**NEC**

**UTB**

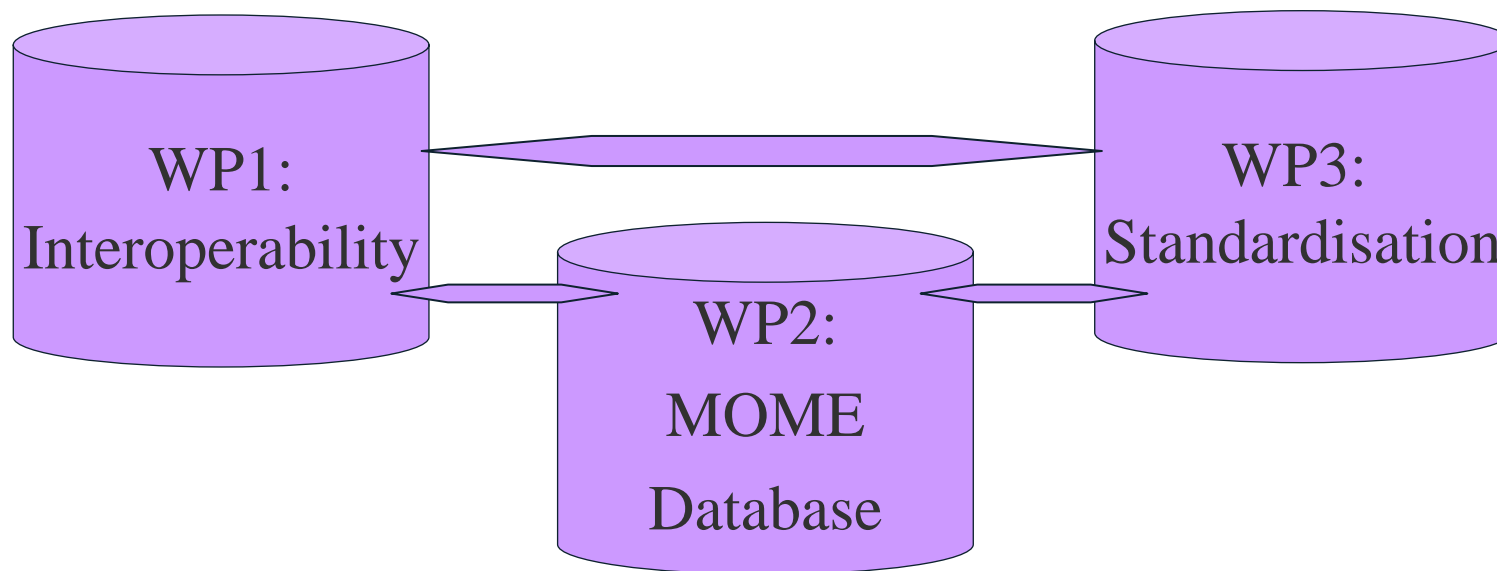


# Project Overview

- | IP Monitoring & Measurement
  - | Traffic Control
  - | Traffic Engineering
  - | Trials & Evaluation
  - | Billing/Accounting
  - | Security
  - | etc.
- | Similar needs, different solutions
- | a combination of tools to process the information requires common information models, common data models, file formats, common protocols
- | standardization of the data and interactions between the tools provides interoperability between tools

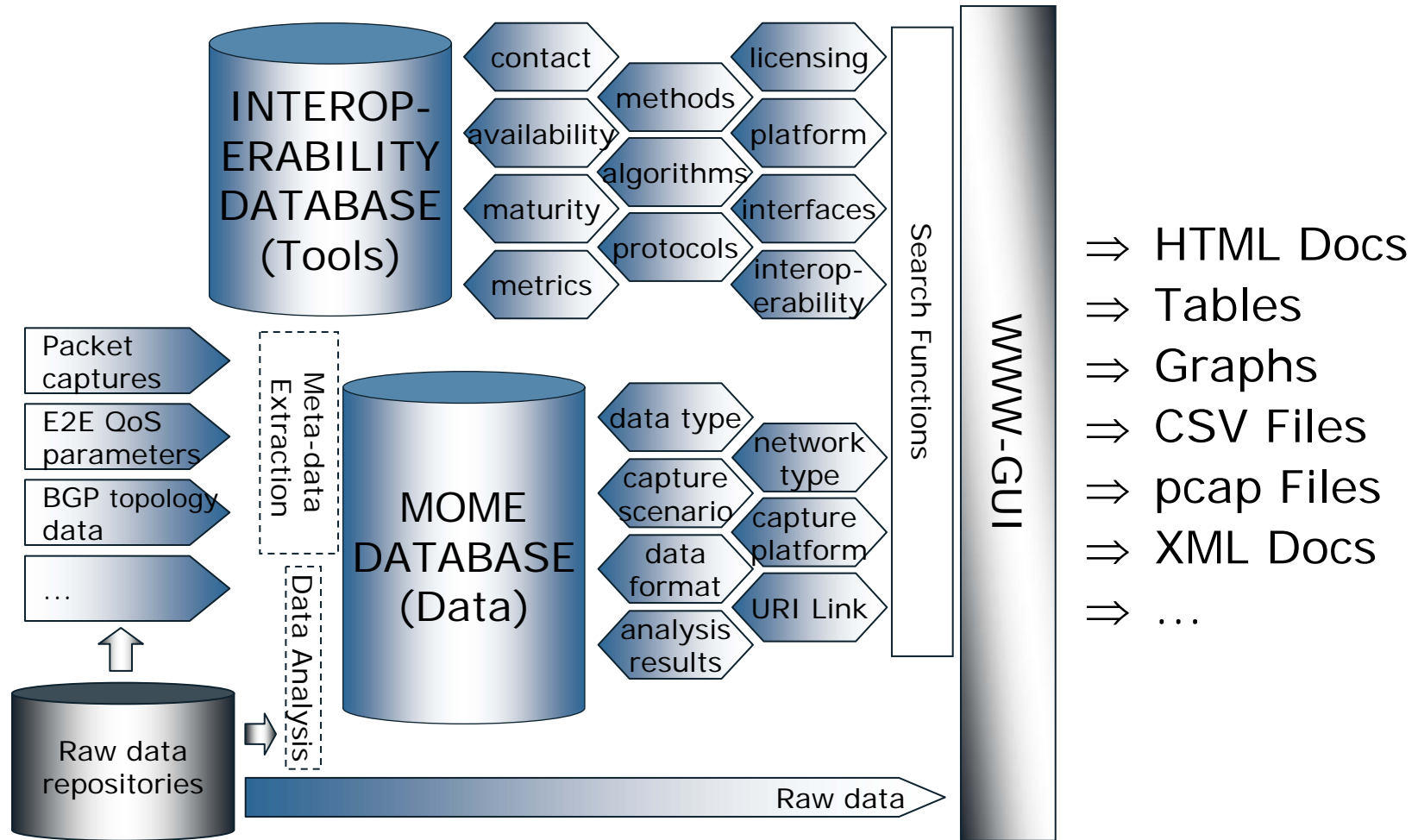
# MOME Work packages and Workflow

| WP0: Project Management



| WP4: Dissemination

# MOME Scenario



## Key Objectives

- | **evaluate** and **promote interoperability**
- | **select** supported **data formats** for measurements
- | **collect** and **distribute measurement data**
- | **promote** and **co-ordinate standardization activities**
- | **organise workshops** and **conferences**

## Key Objectives

### | **Technical approach**

| creation and maintenance of meta-databases for monitoring and measurement *tools* and measurement *data* plus a GUI for management and searching them

| Collect & evaluate information

| Build tools taxonomy

| Collect information about measurement tools

| Recommend measurement tools

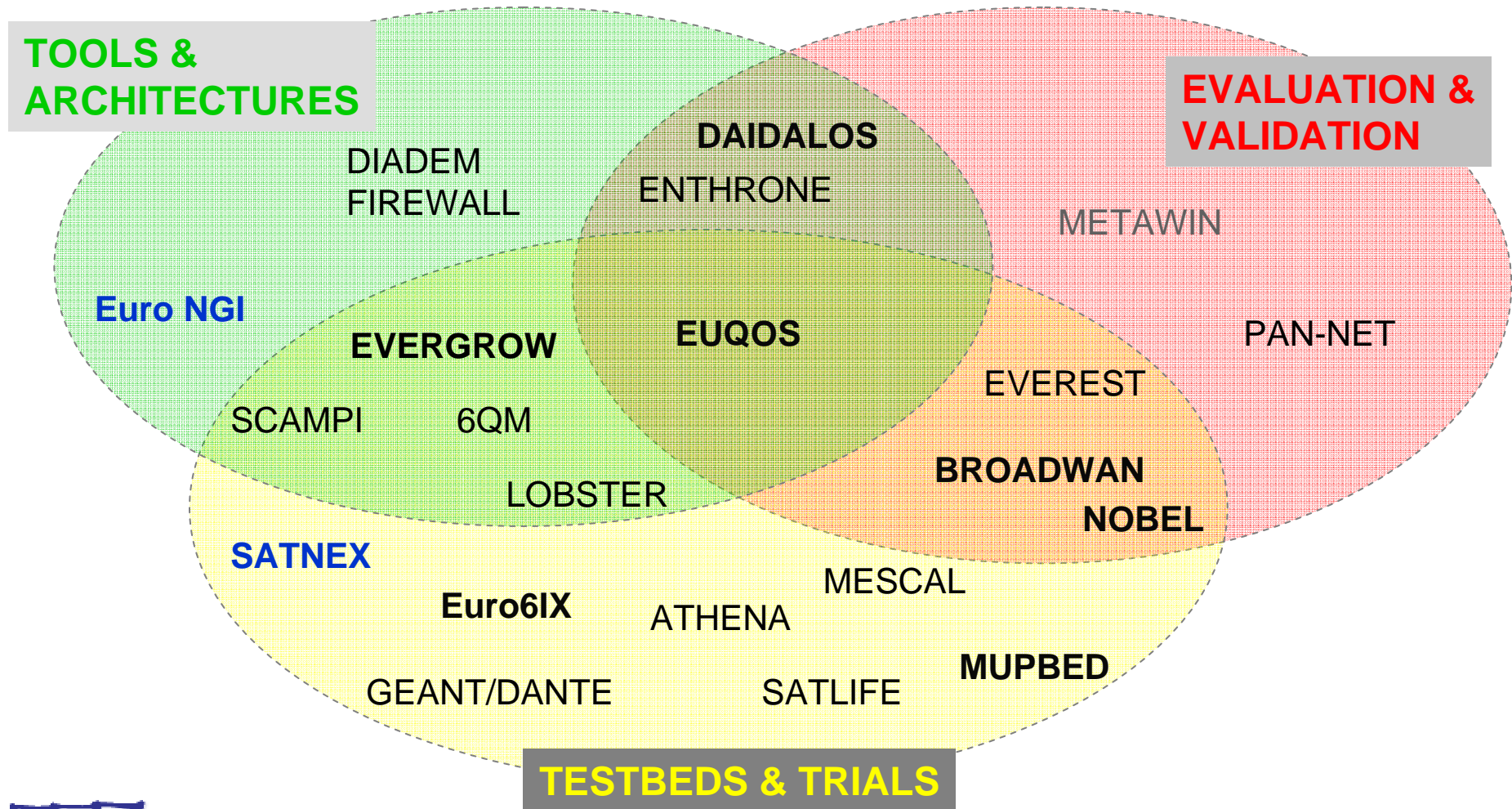
| Create on-line searchable tool database

| Perform interoperability tests

# Achievements

- | MoMe database
  - | Survey tools and their characteristics
  - | Recommend tools
  - | Traces available
  - | Stores only Meta-Information, not Traces themselves
  
- | Coordinate Standardisation
  
- | Events: gets together specialists in the field of IP monitoring and measurement for knowledge exchange
  - | MoMe events
  - | MoMe meetings
  - | Interoperabilty event
  - | standardization workshop

# Main monitoring activities in associated projects



## MOME Events



- | MoMe 2004 events
  - | <http://www.ist-mome.org/events>
- | March 2005
  - | IPS-MoMe Workshop, Warsaw
- | June 2005
  - | Panel Discussion at TERENA Networking Conference
- | July 2005
  - | MoMe Interoperability and Standardisation events
- | October 2005
  - | open MOME Workshop
- | February 2006
  - | IPS-MoMe Workshop, Salzburg

# Standardization Activities

- | Goal: coordinate standardization within IST projects
- | Gather information of known contributions from IST projects and provides opportunities for participation in standardization activities.
- | Practically, what the MoMe standardization team has done is :
  - | Contact IST projects and interested partners within those projects
  - | Organise phone conferences and meetings with partners interested in contributing
  - | Monitor the progress of the Internet drafts to be written
  - | Coordinate discussions within IPPM and IPFIX WGs at IETF

# Standardization Event Programme of the day



- | 09:15 - 09:30 Introduction to the IETF standardization procedures (J. Quittek, NEC Europe Ltd.)
  
- | 09:30 - 10:15 MOME related activities in the IETF charters:
  - IPFIX (C. Schmoll, Fraunhofer Institute FOKUS)
  - PSAMP (T. Zseby, Fraunhofer Institute FOKUS)
  
- | *10:15 - 10:30 Coffee Break*
  
- | 10:30 - 11:15 MOME related activities in the IETF charters (IPPM, RMON) (Emile Stephan, France Telecom)
  
- | 11:15 - 11:30 MOME related activities in the ITU-T (J. Quittek, NEC Europe Ltd.)

# THANK YOU

# Wrap-up and Conclusions



Standardization workshop  
31 July 2005

## Wrap-up and Conclusions

- | MOME project established a **mome-ietf-team** to discuss IETF standardization activities
  
- | Objectives:
  - | Discuss and coordinate interested people in submitting drafts to the IETF charters; focusing on IPFIX, PSAMP, IPPM, NSIS charters.
  - | Improve the level of the submitted drafts by means of peer reviews among members
  
- | Coordination via:
  - | - mome-ietf-team mailing list
  - | - face-to-face standardization events.

# Standardization at the IETF

- | Internet Drafts submitted
  
- | MOME-initiated submitted standardization drafts :
  - | draft-niccolini-ippm-storetraceroutes-00
  - | draft-fessi-nsis-m-nsip-framework-00.txt
  - | draft-boschi-data-exchange-quest-00.txt
  
- | **Other submitted standardization drafts (by MOME associated projects)**
- | IPFIX
  - | draft-ietf-ipfix-architecture-08
  - | draft-ietf-ipfix-info-09
  - | draft-ietf-ipfix-protocol-17.txt
  - | draft-ietf-ipfix-as-06.txt
  - | draft-dressler-ipfix-aggregation-01.txt
  - | draft-boschi-perpktinfo-02.txt
- | PSAMP
  - | draft-ietf-psamp-sample-tech-07.txt
  - | draft-ietf-psamp-mib-04.txt
- | NSIS
  - | draft-dressler-nsis-metering-nsip-01.txt

## Standardization Info and Dissemination



- | MoMe website
- | Meetings held with the **mome-ietf-team**
- | MoMe sessions at Terena, at BBEurope,...
- | Concertation meetings

## Wrap-up and Conclusions

- | - IPFIX
  - | - PSAMP
  - | - MOME related activities in the IETF charters (IPPM, RMON)
  - | - MOME related activities in the ITU-T
- 
- | Identify efforts to be made? Identify other possible work on standards
  - | Investigate on ? Future work?
  - | More collaboration work needed?
  - | Spread out on standardization activities:
    - | Mailing list
    - | Conference, tutorial, etc

# THANK YOU