PIL
Pan-European Laboratory Infrastructure Implementation

http://www.panlab.net
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Approach

- Create a large scale testing and experimentation facility by integrating existing and emerging testbeds
- Achieve scale and maintain independence through federation
  - that enables **end-to-end interoperability** testing of platforms, networks and services
  - that helps **reducing the risks and costs** of large-scale network infrastructure testing
Discover, compose, provision testing services
Example – Octopus Testbed is available today.

- Pori NGN GSM/GPRS/EDGE
- TeliaSonera UMTS (HSPA)
- DNA UMTS (HSPA)
- panOulu WLAN/WiMAX
- Partner Z’s Network
- YRP Japan
- Trianz India
- Nokia Finland
- Partner Y’s Lab
- Delivery Server
- Presence Server
- Streaming Solution
- Collecting:
  - MMS Center
  - WAP Gateway
  - Terminal management Server
  - SMS Center
  - Nokia IMS Server
  - Nokia AGPS Server
  - Delivery Server
  - Presence Server
  - Streaming Solution

- Customer Application Servers
- VTT CNL Lab
- Pori NGN Lab
- Partner X’s Lab
- Partner Y’s Lab

- Firewall
- AP’s
- IPsec tunnel

- Octopus Server farm
- 3rd party testbeds
Beta platform – Berlin cluster

Existing Testbeds, e.g. Beyond 3G, IMS Playground, Mobile IP Media, Ambient Assisted Living and others

High-Level classification and composition of repository

Customer access to repository to select testbed components and getting detailed information

Overlay network for administration and configuration

Centralized authentication for all Beta Platform services

Creation of new Testbeds for developers according to their requirements
Example – Fraunhofer FOKUS IMS playground is available today

Remote Testbeds
Examples: Uni Cape Town, WIT Ireland

NGN Open Testbeds

Operators & Vendors

Cooperation

1 Free Download

NGN Open Testbeds

Cooperation

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Platform

Examples: South Africa, Korea, Indonesia, Japan, ...

FOKUS SOA/MIL Components

Partner NGN Components

Examples: O2, T-Com, Arcor, Ericsson

IMS Testbed

IMS Testbed
First interconnection for demonstrating PII testing services across administrative domains – between Oulu and Berlin – is planned for December 2008.