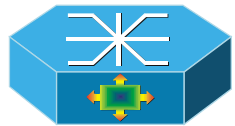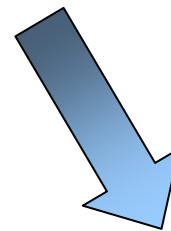# TOP-IX update

A different paradigm for
the Internet eXchange

Who we are

TOP-IX: TOrino e Piemonte Internet eXchange
Geographically Distributed Internet Exchange for North West Italy
No-profit consortium founded in 2002
41 affiliated members
Open to anyone who has an AS (<u>not only</u> ISPs)
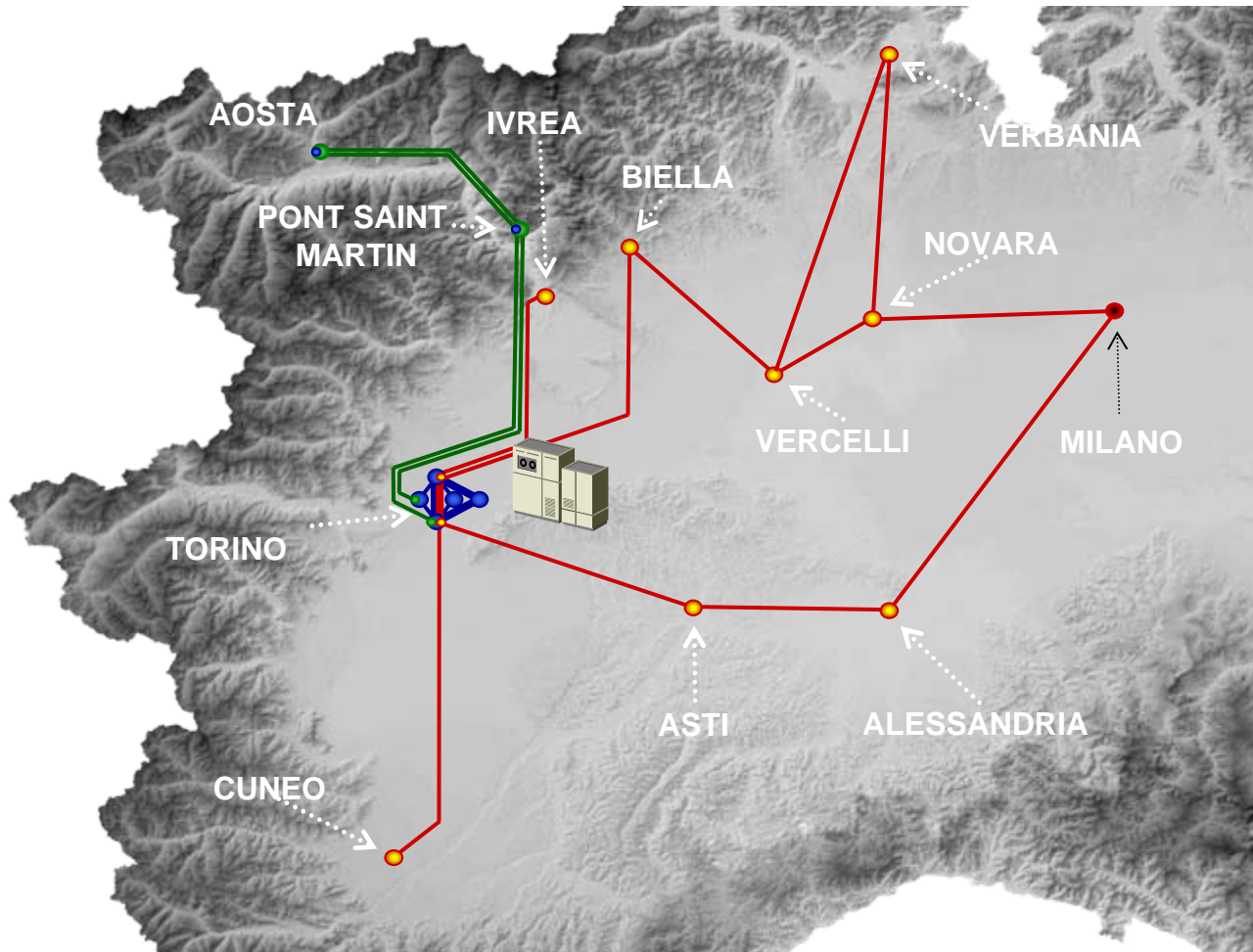
Internet Exchange

Develop and manage
the network infrastructure
to provide
Internet Exchange services

Development Program (DP)

Make available
an open innovation environment
to foster
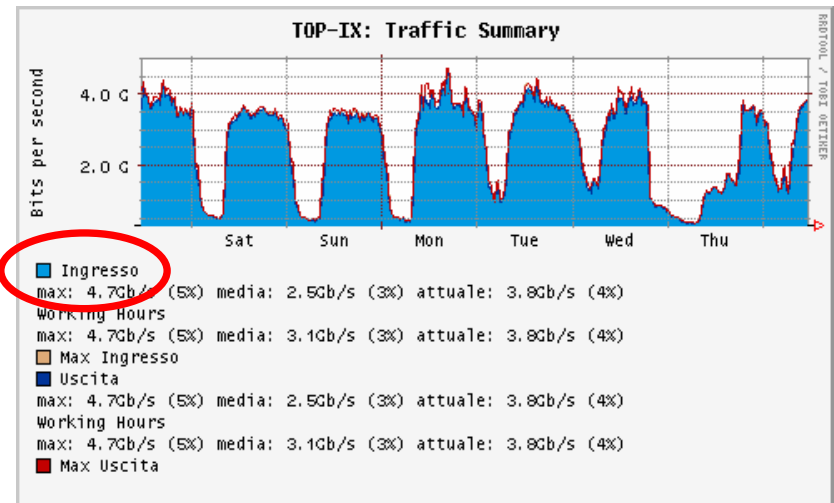new business creation

IX - Backbone

The 720 km of fiber, in a ring configuration with two 10Gbps lambdas,
it's an investment of the Region and TOPIX shares it

The Internet exchange

- Geographically distributed over 16 locations
- Switches:
  - # 3 Cisco 6509 with redundant sup720
  - # 2 Cisco 4006
  - # 9 Cisco 3750
- What's going on:
  - Netflow
  - Inter-AS Multicast testing
  - New website
  - Developing new tools for members
- Traffic

recent peak
4.7 Gbps

TOP-IX: Traffic Summary

Ingresso
max: 4.7Gb/s (5%) media: 2.5Gb/s (3%) attuale: 3.8Gb/s (4%)
Working Hours
max: 4.7Gb/s (5%) media: 3.1Gb/s (3%) attuale: 3.8Gb/s (4%)
Max Ingresso
Uscita
max: 4.7Gb/s (5%) media: 2.5Gb/s (3%) attuale: 3.8Gb/s (4%)
Working Hours
max: 4.7Gb/s (5%) media: 3.1Gb/s (3%) attuale: 3.8Gb/s (4%)
Max Uscita

Mapping IX locations

The Development Program (DP)
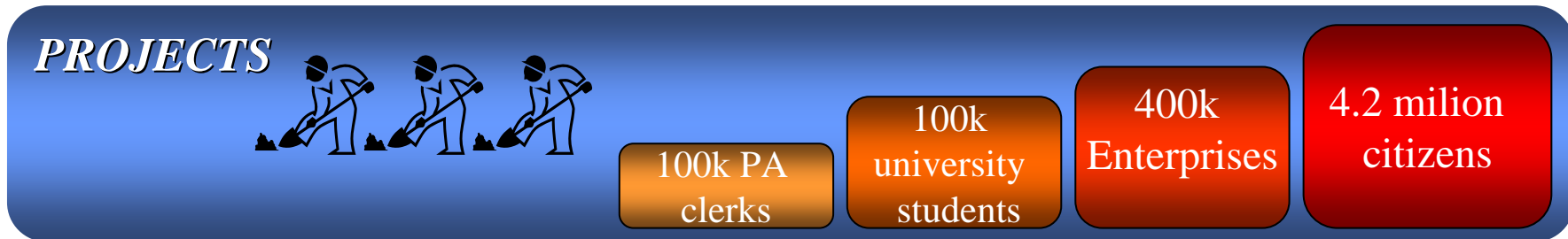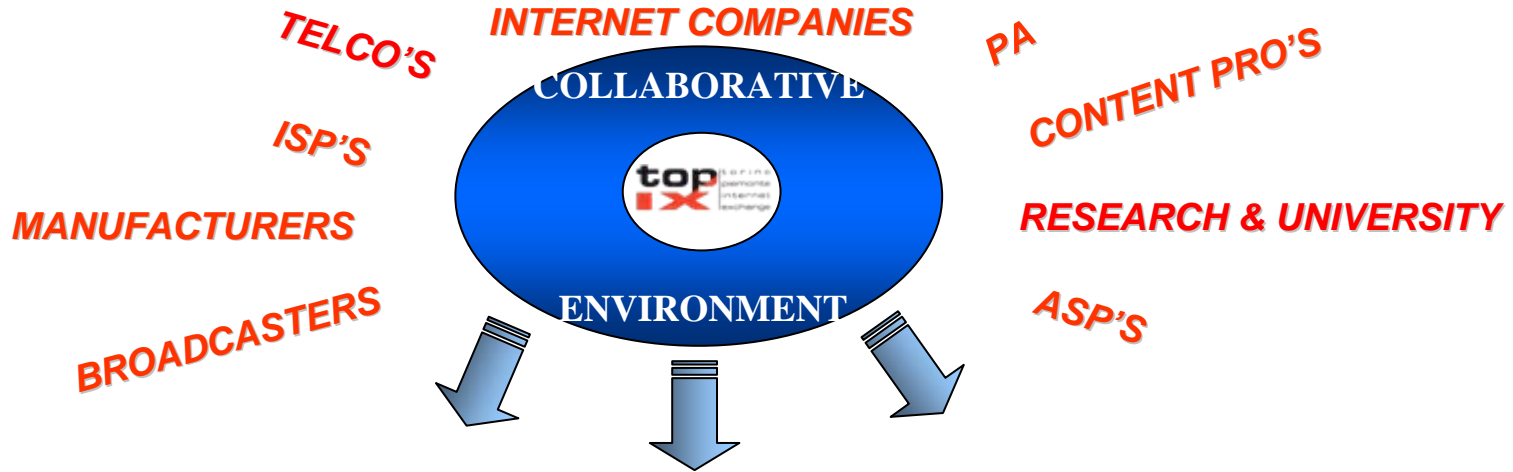
Support for **INNOVATIVE** projects

FACILITATOR for the experimentation

fostering new **BUSINESS CREATION**

OPEN INNOVATION environment

Leverages the **Distributed Platform for the Innovation**

The DP model

TELCO'S

INTERNET COMPANIES

PA

ISP'S

CONTENT PRO'S

COLLABORATIVE

MANUFACTURERS

RESEARCH & UNIVERSITY

ENVIRONMENT

BROADCASTERS

ASP'S

PROPOSALS

PROJECTS

100k PA clerks

100k university students

400k Enterprises

4.2 milion citizens

BETA TRIAL TARGETS

Max. 3 years

Business $

Business $

Business $

Innovation projects: examples

WebTV dedicated to gaming

Internet Movie distribution

Peer2peer TV

Web radio and TV