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České předsednictví
v Radě EU

Czech Presidency
of the Council of the EU

Présidence tchèque
du Conseil de l'UE

2009

The Future Internet Conference

Jiří Peterka

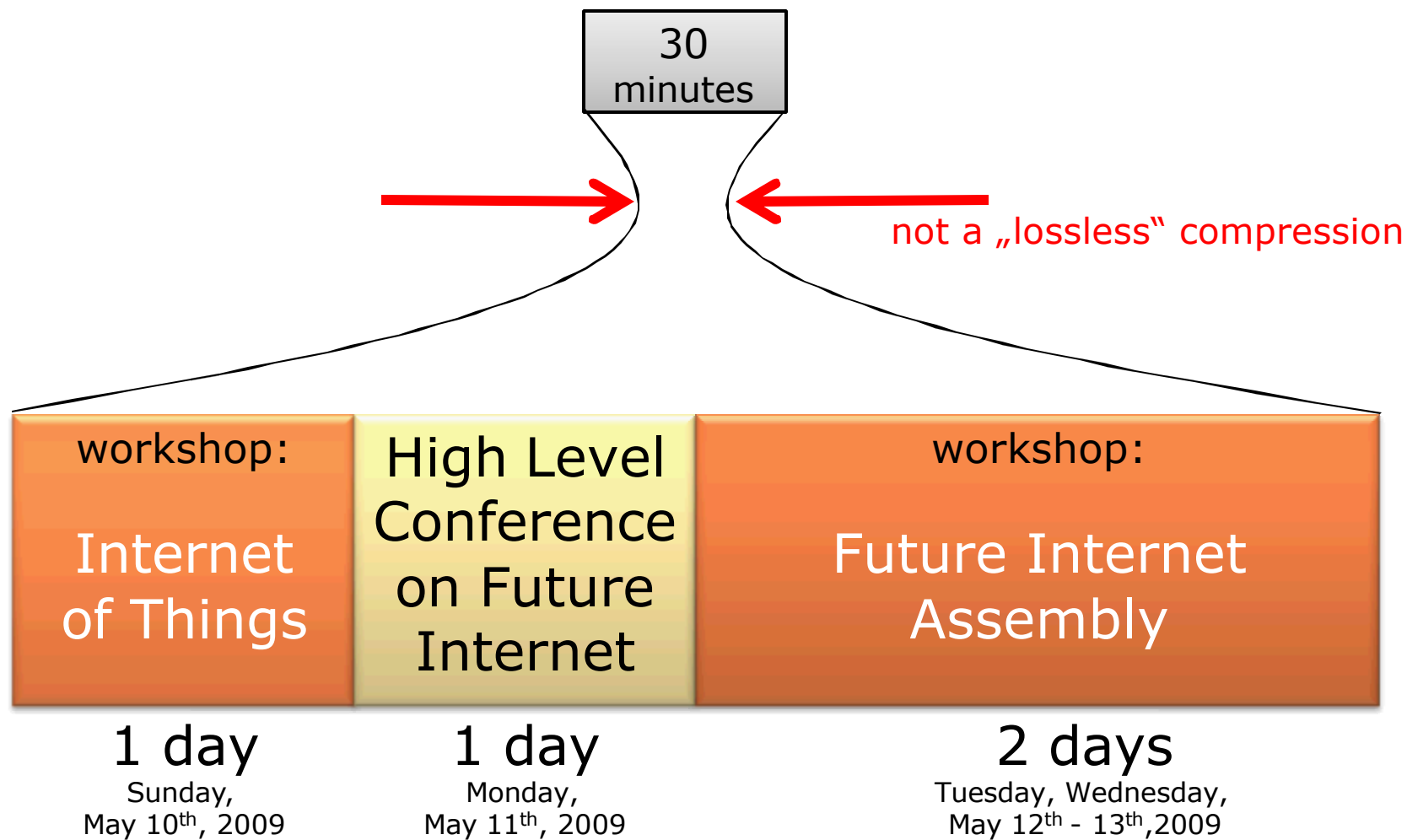Charles University, Prague, CZ

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Subject of my talk …..

30
minutes

not a „lossless" compression

workshop: Internet of Things	High Level Conference on Future Internet	workshop: Future Internet Assembly
1 day Sunday, May 10th, 2009	1 day Monday, May 11th, 2009	2 days Tuesday, Wednesday, May 12th - 13th,2009

Europe wants to be a key player ....
... shaping the future of the Internet

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has several „Future Internet related" activities:

- with **immediate/short** time horizon (0 to 5 years):
  - mainly regulatory issues, see Telecom Package
    - review of the European Regulatory Framework
  - recently added: ICANN (Internet governance) revision by Oct. 1st, 2009

> question of politics & legislation

- with a **medium** time horizon (5 to 10 years):
  - mainly the „Internet of Things"
    - massive connecting of active&passive devices, objects etc. („things") to the Internet

> non-technical issues to be solved (privacy, ethics)

- with a **long** time horizon (10 to 15 years):
  - Q: *Is the Internet of today able to face the increasing number of requirements and expectations?*
  - A: evolution or clean slate design

> mainly: research

How it all began?

THEFUTUREOFTHEINTERNET
Perspectives emerging from R&D in Europe

Slovensko predsedstvo EU 2008
Slovenian Presidency of the EU 2008
La Présidence slovène de l'UE 2008

- March 2008, Slovenian presidency, Bled:

  - 1st **conference on Future Internet**

  - The **Bled Declaration**:

    - *a significant change is required …
      … to meet Europe's societal and
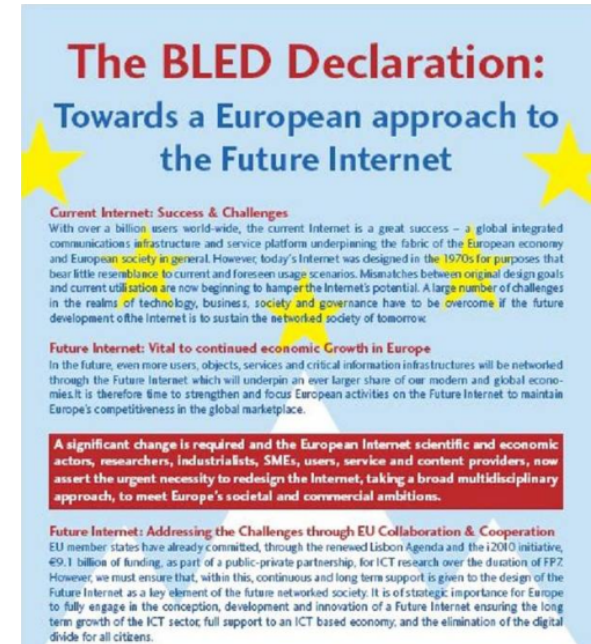   commercial ambitions*

    - calls for a boost in R&D and better
      coordination in Future Internet
      research

  - The **Future Internet Assembly** is established

    - as a body representing the R&D projects and
      coordinating R&D

      - currently 95 EU-funded projects

signatories of …

The BLED Declaration:
Towards a European approach to the Future Internet

Current Internet: Success & Challenges
With over a billion users world-wide, the current Internet is a great success – a global integrated communications infrastructure and service platform underpining the fabric of the European economy and European society in general. However, today's Internet was designed in the 1970s for purposes that bear little resemblance to current and foreseen usage scenarios. Mismatches between original design goals and current utilisation are now beginning to hamper the Internet's potential. A large number of challenges in the realms of technology, business, society and governance have to be overcome if the future development of the Internet is to sustain the networked society of tomorrow.

Future Internet: Vital to continued economic Growth in Europe
In the future, even more users, objects, services and critical information infrastructures will be networked through the Future Internet which will underpin an ever larger share of our modern and global economies.It is therefore time to strengthen and focus European activities on the Future Internet to maintain Europe's competitiveness in the global marketplace.

A significant change is required and the European Internet scientific and economic actors, researchers, industrialists, SMEs, users, service and content providers, now assert the urgent necessity to redesign the Internet, taking a broad multidisciplinary approach, to meet Europe's societal and commercial ambitions.

Future Internet: Addressing the Challenges through EU Collaboration & Cooperation
EU member states have already committed, through the renewed Lisbon Agenda and the i2010 initiative, €9.1 billion of funding, as part of a public-private partnership, for ICT research over the duration of FP7. However, we must ensure that, within this, continuous and long term support is given to the design of the Future Internet as a key element of the future networked society. It is of strategic importance for Europe to fully engage in the conception, development and innovation of a Future Internet ensuring the long term growth of the ICT sector; full support to an ICT based economy; and the elimination of the digital divide for all citizens.

FUTURE INTERNET ASSEMBLY

Financing

Currently, Future Internet research is (only) EU-funded:

- the EU allocated € 400 mil. from FP7, WP 2009-2010

- a new wave of FI-related projects is expected to arise out of Calls 4 and 5

  - adding a potential 300 to 400 million € of new funding to the Future Internet activities within the WP

but: private sector co-financing is sought and expected

- based on a PPP scheme
  - Public-Private Partnership

- a "request for PPP" was contained in Bled declaration (March 2008)

- a PPP initiative from the private sector came only now

  - at Prague conference, May 2009
  - 16 companies willing to cover 50% of a 1 bln. € investment over 5 years

Future Internet Initiative

16 companies, wishing "*to secure Europe's interests and establish its role in the Future Internet domain*"
- *through the PPP,   time horizon is 2010-2015*

Timeline for new WP and PPP

Details of the PPP (Public Private Partnership) still have to be worked out

- *„to keep openness …"* etc.

November 3rd	November 23-24	April 2010	Summer 2010		
12-13 MAY FIA PRAGUE	**Deadline Call 5**	**FIA/FIF Stockholm**	**FIA/FIF Valencia**	**WP 2011-2013**	**2011-2013** · **FP8**

Communication on FI PPP Sept 2009

Results of Call 5

Preparation of PPP action and Content Preparation of a restructured WP

New WP Call PPP

start of PPP projects
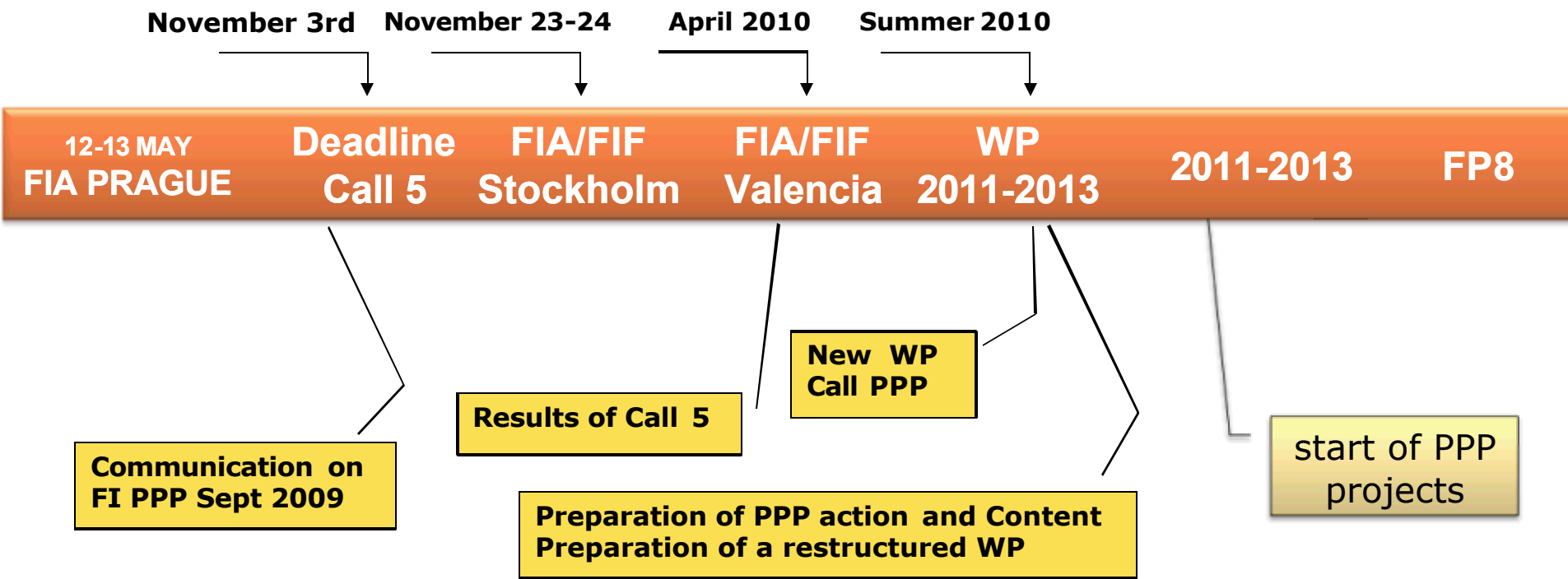
What is the FIF?

reminder: **FIA** is the **Future Internet Assembly**

- a body composed of R&D projects' (representatives)

  - not politicians, not bureaucrats, ……

so another "governing" body was formed

- the **Future Internet Forum** (FIF)

  - "**of Member States Initiatives**"

  - official "ribbon cutting procedure" at the Prague High Level Conference

    - first meeting of the Forum one day later

  - members representing national bodies & national Future Internet activities

Prague event, past & future events

The Prague event, hosted by CESNET, aimed to:

- "*review the strategic orientations and trends governing the future societal and economic developments of on-line Internet and Mobile societies*"
  - mainly: the 1-day High Level Conference

The FIA meets 2x a year

- 2-day workshops
- will now meet in parallel with the FIF
- 2008:
  - Bled, Slovenia, March 30th - April 2nd
  - Madrid, Spain, December 9-10th
- 2009:
  - Prague, CZ, May 12th – 13th Stockholm, SE, November 23rd -24th
- 2010:
  - Valencia, ES, April
  - ?????

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OF THE INTERNET
Prague | May 2009

FUTURE INTERNET ASSEMBLY

FIA Working Groups

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- Future Content Networks
- Management and Service-aware Networking Architectures
- Trust and Identity
- Future Internet Service Offer
- Future Internet Socio-Economics
- Real World Internet

can be compared to:

IRTF Working Groups:

- Anti-Spam Research Group
- Routing Research Group
- Delay-Tolerant Networking Research Group
- Peer-to-Peer Research Group
- Host Identity Protocol Research Group
- IP Mobility Optimizations Research Group
- Network Management Research Group Charter
- Transport Modeling Research Group
- Scalable Adaptive Multicast Research Group
- Crypto Forum Research Group
- End-to-End Research Group Charter
- Internet Congestion Control Research Group
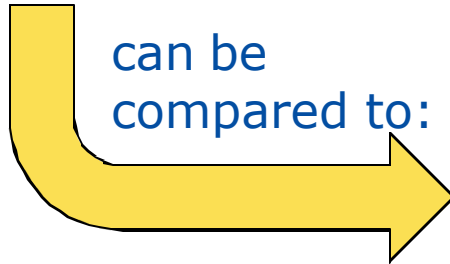
Commissioner Viviane Reding in Prague ….

"Europe is taking steps to become a major player in the Future Internet debates"

"At a moment when we are reflecting on our "post Lisbon" and "post i2010" strategies, it is crucial that the Future Internet gets the right level of recognition under the innovation strategy that the next Commission will put in place"

"Currently, my services are working with industry to define the content and structure of this Public Private Partnership, towards an operational kick-off in 2011"

Commissioner Viviane Reding in Prague ….

- Openness of the Internet must be preserved …
  - through open standards and open interfaces
- Net Neutrality:
  - use for maintaining QoS is ok,
  - use for anti-competitive behaviour is not ok
    - at the press conference: mentioned a German mobile operator trying to block VOIP traffic – not ok
- Security and Privacy
  - must be balanced ……
- (rural) broadband infrastructure: EU invests 1,02 bln. €
  - but: other regions of the world (.AU, .JP, .CN, .US etc.) invest much more
  - also: EU Member States can decide whether to use the money for rural broadband or for agricultural projects (milk subsidies, for example)

Usefull URLs:

- Prague Conference website:

  - http://www.fi-prague.eu

- European Future Internet Portal:

  - http://www.future-internet.eu

- EC website on the Future Internet:

  - http://ec.europa.eu/foi

- Connectivity Scorecard 2009

  - http://www.connectivityscorecard.org/

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thank you for your attention