



Latvian Presidency
of the Council of the
European Union

EU2015.LV

THE LATVIAN PRESIDENCY

**UNLOCKING EUROPEAN DIGITAL POTENTIAL FOR
FASTER AND WIDER INNOVATION THROUGH OPEN AND
DATA-INTENSIVE RESEARCH**



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European Union

IT-LV-LU TRIO PROGRAMME

Overcome the
economic and financial
crisis

Deliver more jobs and
seize digital
opportunities

Safeguard fundamental
rights and play a role in
a fast changing world

EU's Strategic Agenda

A Union of jobs,
growth and
competitiveness

Towards an Energy
Union with a forward-
looking climate policy

A Union that
empowers and
protects all citizens

The Union
as a strong
global actor

A Union of
freedom, security
and justice

Competitive
Europe

Digital
Europe

Engaged
Europe

Guidelines for the Commission

Jobs, growth and investment

Internal market with a
strengthened industrial base

Economic and Monetary Union

Energy Union with a
climate change policy

A connected digital single market

Transatlantic Trade and
Investment Partnership

Europe as a stronger global actor

Towards a new policy on migration

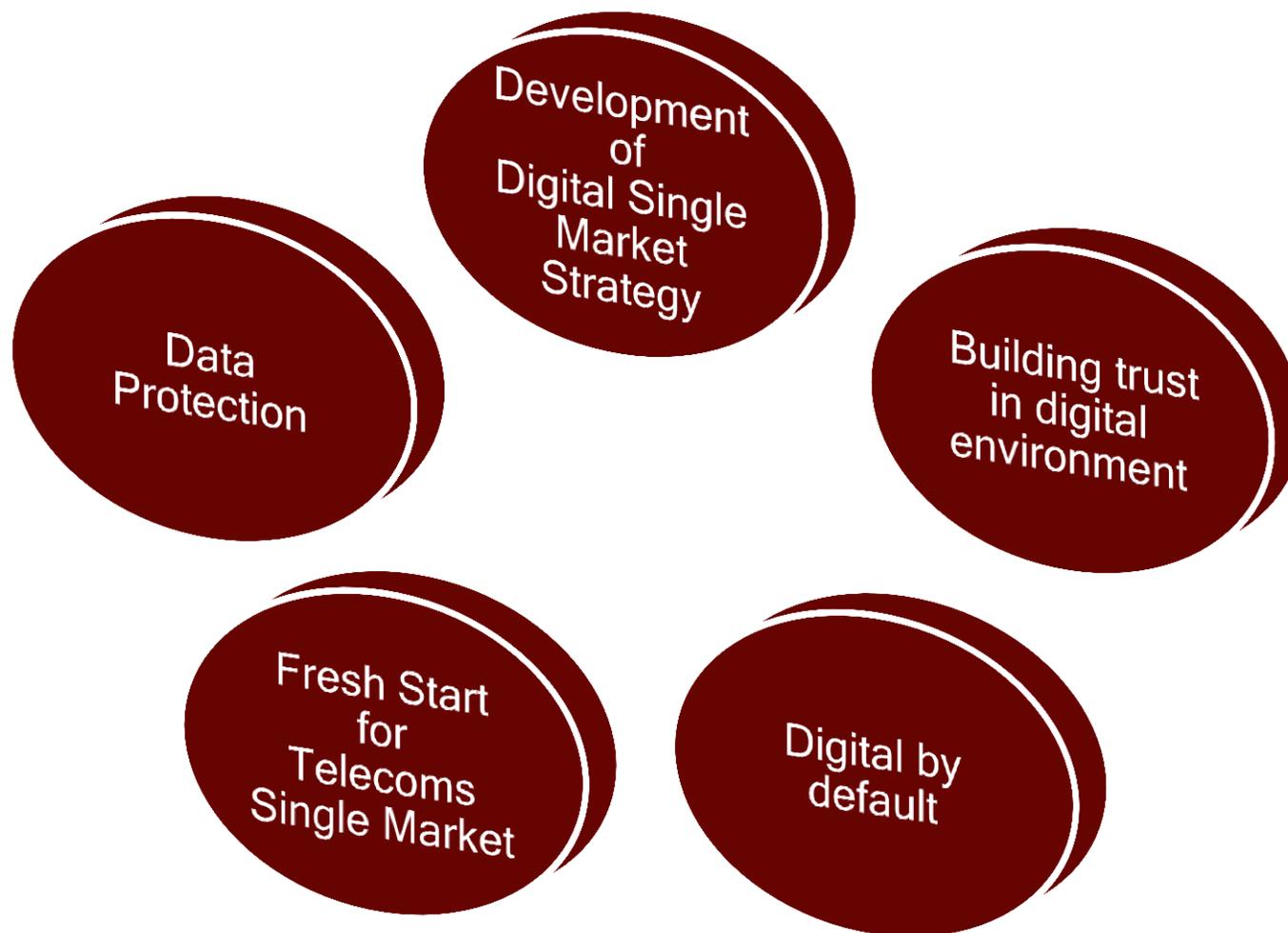
An area of Justice and Fundamental
Rights based on mutual trust

A Union of
democratic change



DIGITAL EUROPE

Seizing the Opportunities of the Digital Single Market



Seizing the Opportunities of the Digital Single Market

Context for research and innovation

- Big data “explosion” and close to real time analysis of big data
- Data driven innovation - disruptive nature
- Moving towards “Open science”
 - Communication from the Commission “Towards a thriving data-driven economy”
 - Science 2.0 - follow up to public consultation

Seizing the Opportunities of the Digital Single Market

Disruptive nature of the data driven innovation (DDI)¹

- Improvement of existing, or development of new, products, processes, organizational methods and markets, emerging from the Big Data phenomenon;
- Global market for big data related technology and services: 17 billion USD in 2015 with growth rate 40% per annum,
- Firms using DDI: productivity raise faster than non-users 5-10%
- Two clusters of challenges: 1) Addressing negative effects of fragmentation; 2) The right balance between openness and privacy

¹ OECD (2015), “Executive summary”, in Data driven Innovation: Big Data for Growth and Well-being, OECD Publishing, Paris

Disruptive nature of the data driven innovation

Addressing negative effects of fragmentation and stimulating investments:

- Infrastructure for DDI (mobile broadband, cloud computing, the Internet of Things, and data, with a strong focus on SMEs and high value-added services)
- The public sector, health care, science and education: improved efficiency through knowledge sharing
- Organizational change by encouraging a culture of data driven experimentation and learning;
- Education and training beyond STEM (data managers, big-data analytics, training of data users) and new jobs

Disruptive nature of the data driven innovation

Framework conditions: The right balance between openness and privacy:

- Free flow of data across nations and organizations (open access, interoperability of data-driven services, reuse of data - “data portability”)
- Responsible use of personal data and prevention of privacy violations
- A culture of digital risk management across society, involving all stakeholders of data ecosystem

Disruptive nature of the data driven innovation

Framework conditions: The right balance between openness and privacy

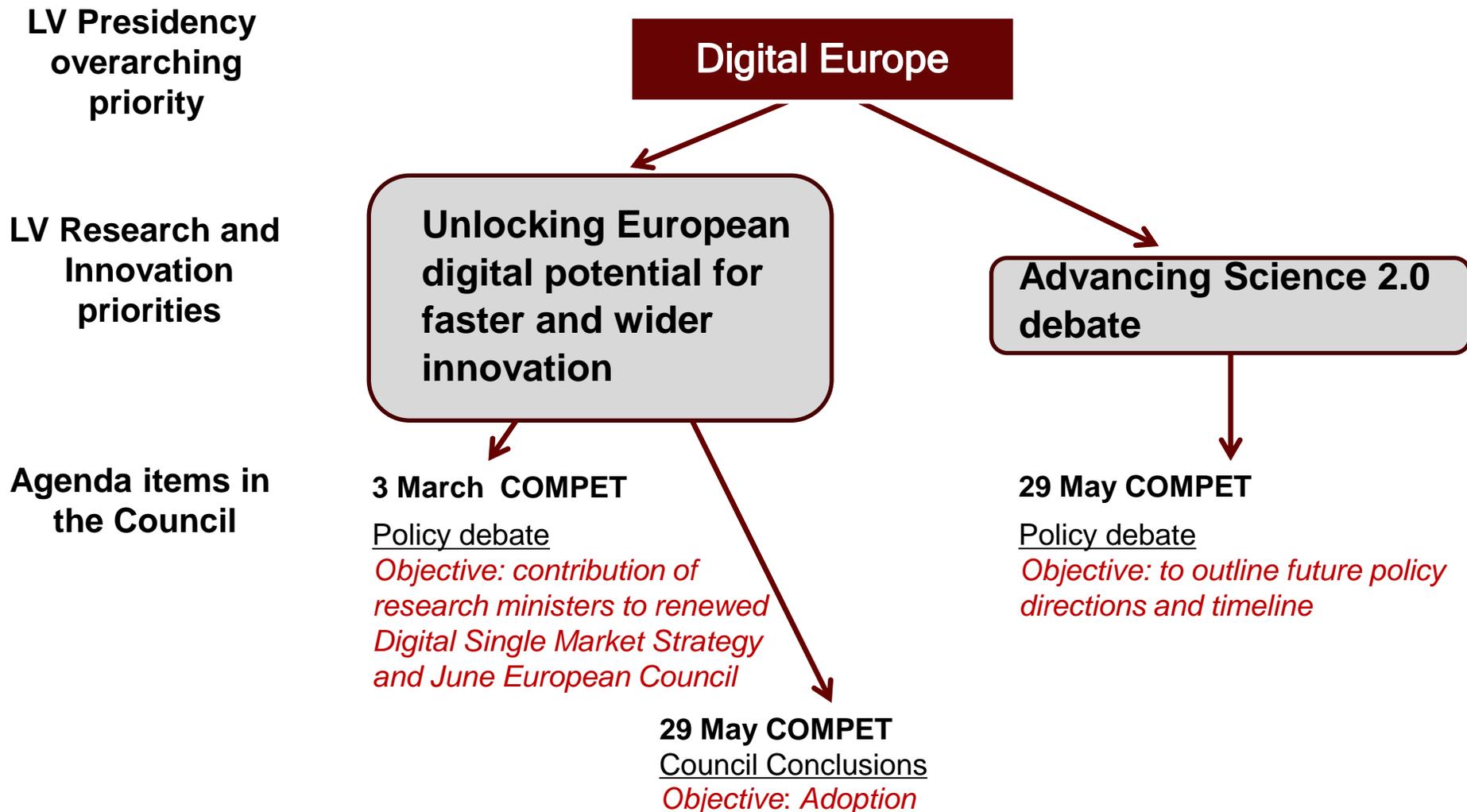
- Data sharing and alternative incentive mechanisms which promote sharing (data citation, IPR - for example, Creative Commons and open source software)
- Coherent assessment of market concentration and competition barriers, improving framework conditions
- Improved measurement to help better assess the economic value of data assets, prevent base erosion and profit shifting (BEPS)



LV Presidency research priorities

1. Creating mutually enhancing and sustainable relations between actions fostering innovation and those **unlocking Europe's potential for growth in the European Research Area**;
2. Advancing ERA through the ERA Roadmap and **better governance of ERA**;
3. **Unlocking European digital potential** for faster and wider innovation **through open and data-intensive research**;
4. **Advancing Science 2.0 debate**
5. Advancing **BONUS – 2 debate**

Hierarchy of LV Presidency research Priorities (II)



LV Presidency outcomes (3)

May Council

Policy debate: Unlocking European digital potential for faster and wider innovation, [introduction – prof. Volker Markl](#)

May Council

Policy debate: Towards open and excellent European science – follow-up to the Science 2.0 public consultation – [prof. John Wood](#)

Adoption of Council conclusions: Open, data-intensive and networked research as a driver for faster and wider innovation [doc 9360/15](#)

Open, data-intensive and networked research as a driver for faster and wider innovation

- **better framework conditions for data-driven innovation taking into account the research perspective**
- cooperation along the whole **data value chain in Europe**, potential of **multilingualism for DSM**, need for **digital and data skills, data professionals**
- further reflection on the current **science metrics and incentives for researchers to publish through open access**, need to promote innovation driven by **text and data mining**
- development of the **European Science Cloud**, and highlighted the importance of **open standards**, especially in the global research data exchange.
- e-infrastructure and coordination of MS's investment in research related e-infrastructures
- conclusions and the outcome of the ministerial debate clearly signaled the political will of the Member States **to move forward with the Open Science agenda**



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LV Presidency highlights



Conference OPENING UP TO AN ERA OF INNOVATION , BRUSSELS 22-23 June, 2015

Open Science, Open Innovation, Open to the World

- Open science maximizes the flows of knowledge and people
- Open innovation is driven by smart investment and regulation
- Opening to the world brings challenges and opportunities

Developing a European Open Science agenda: the Roadmap (DG RTD):

- Autumn 2015: stakeholder discussion on the European Open Science Agenda
- Autumn 2015 - Spring 2016: Concretization of Open Science actions under the DSM strategy
- 4-5 April, 2016: Conference on Open Science during the NL Presidency in EU
- May 2016: Presentation of the European Open Science Agenda to the COMPET Council

Digital ERA and Open Science:

- ✓ Alternative Open Access Publishing models - COM Workshop in Brussels, October 2015
- ✓ ERAC Task force «Open access to research data» – final report in progress, will be available by the beginning of December
- ✓ Open Access, Open Science – Informal ministerial meeting (Informal COMPET), under the NL PRES, January 2016
- ✓ NL PRES Conference, 4-5 April, 2016
- ✓ Open Science - NL, CC in COMPET May, 2016

IN SUMMARY

- Open science maximizes the flows of knowledge and people
- Community - building and knowledge transfer is essential for data-driven innovation
- Better framework conditions for data-driven innovation must take into account the research perspective
- Broad political support to the idea of a European Open Science Agenda

Reward output, punish inaction!



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THANK YOU, honestly!