

Panel Discussion: Luxembourg, your trusted hub for e-business in Europe



A STRATEGIC EUROPEAN LOCATION:





LUXEMBOURG IS LOCATED AT THE HEART OF EUROPE'S INTERNET GOLDEN CIRCLE

• Area: 2,586 km² (999 mi²)

• Population: 525,000 of which 42 % are foreigners

COMMERCIAL NEUTRALITY AS A CLEAR ADVANTAGE

ACCESS TO 60 % OF EU GDP IN LESS THAN ONE HOUR'S FLIGHT

GLOBAL BRANDS OPERATING OUT OF LUXEMBOURG



Satellite connectivity

Financial services

















Media









Communication



ROAMSYS







Online gaming & publishing



















e-commerce



















play.com





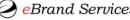














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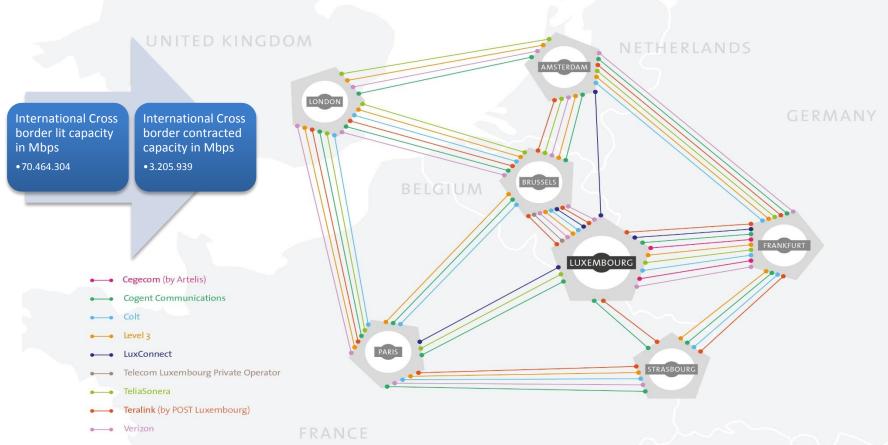






23 different fiber routes TO LUXEMBOURG

I.R.U. Fiber optical networks in 2014



Source: Luxembourg Ministry of State, Media and communications dept.

WIDE CHOICE OF INTERNATIONAL CARRIERS



Tier 1 networks











International carriers



























Luxembourg carriers



















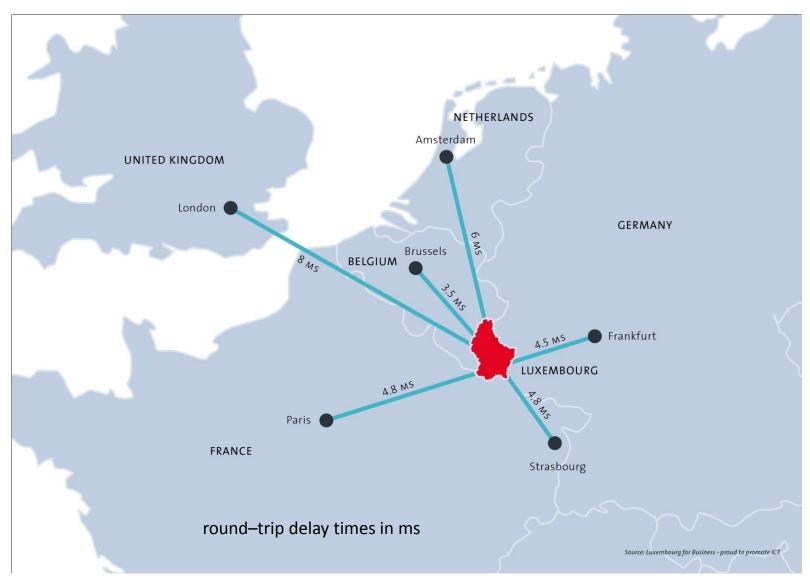






ULTRA LOW LATENCY HUB





GERMANY 14 16 9 17 4 1 7 BELGIUM 11 18 19 12 13 8 FRANCE

LUXEMBOURG DATA CENTRES:

OPERATIONAL 2013

- 1 BCE (Broadcasting Center Europe)
- **2** BT
- 3 CEGECOM Artelis
- 4 CETREL
- 5 ebrc Resilience Centre Luxembourg City 1
- 6 ebrc Resilience Centre Luxembourg City 2
- 7 ebrc Resilience Centre Luxembourg West
- 8 ebrc Resilience Centre Luxembourg South
- 9 ebrc European Reliance Centre East
- 10 EDH (European Data Hub run by CSC)
- 11 LAB DataVault PSF
- 12 LuxConnect DC 1.1
- 13 LuxConnect DC 1.2
- 14 LuxConnect DC 2
- **15** DATA4 Luxembourg (formerly known as SecureIT)
- **16** SES
- 17 Sungard
- 18 Verizon
- 19 Visual Online

Uptime Institute Certification map – Tier IV IDCs



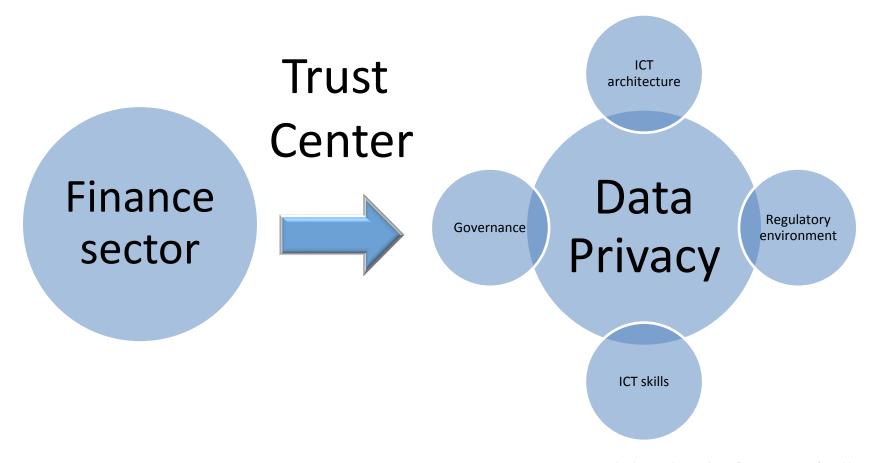
Tier IV Data Centers by location in Europe



DATA PRIVACY



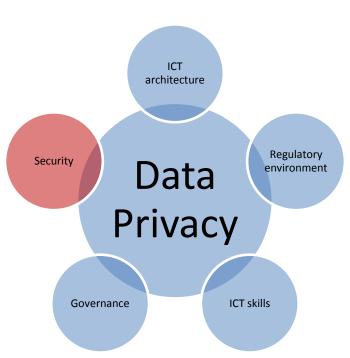
The ICT community of the financial sector has over the years developed strong competencies and inspired a new ICT community



DATA PRIVACY: SECURITY



Security Services provided by Government - security as an infrastructure



- Incident response and early warning (BGP ranking)
- Exchange of Indicators of Compromise (MISP)





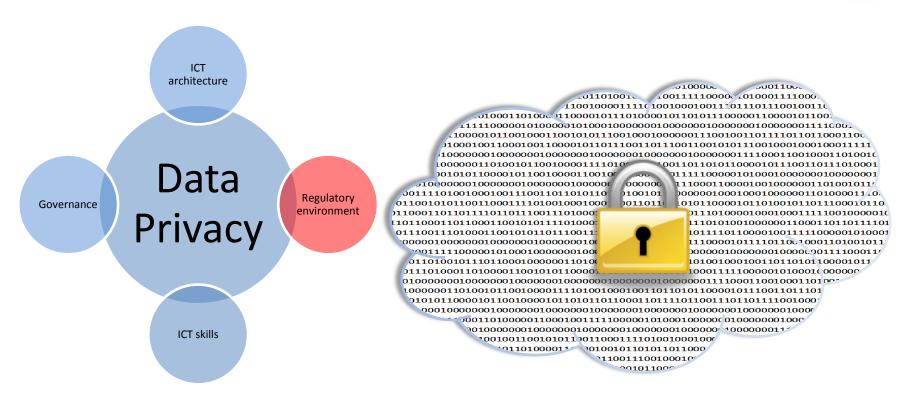
- Governance based on risk assessment
- Contextualized risk assessment tools saving 80% of effort
- DDOS mitigation also for small companies





DATA PRIVACY: REGULATORY ENVIRONMENT





Cloud-friendly legislation

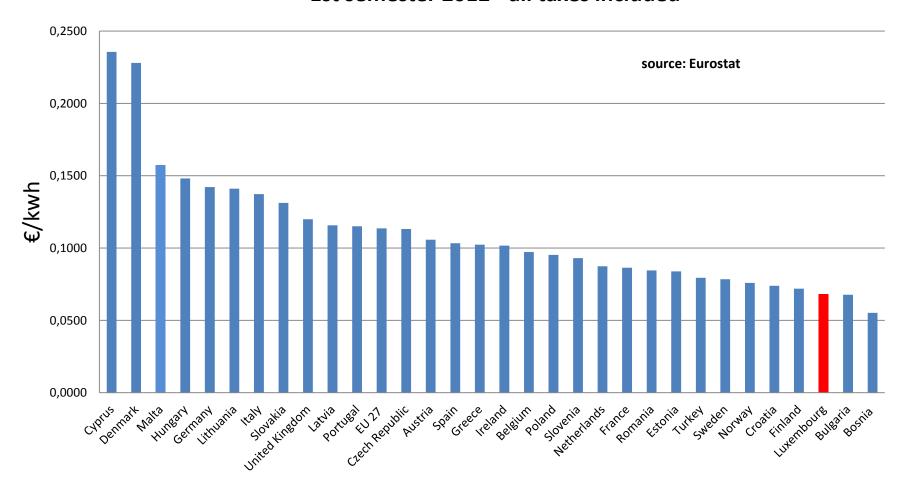
Protection of electronic transactions (LuxTrust)

Secure electronic archiving procedures

ELECTRICITY PRICING



Electrical energy prices for industrial customers with an annual consumption >20 000 MWh and < 70 000 MWh 1st semester 2012 - all taxes included



TARGET COMPANIES AND ACTIVITIES



SW

HQ

development management Tech companies e-commerce **Payment** Disaster platform systems recovery (ICT, e-commerce, gaming, media...) Global companies with subsidiaries in Gaming Intellectual Luxembourg with important ICT needs R&D platform property Companies of other industry sectors with important ICT needs (e.g. Data archiving **EMEA** Big data file finance, Bl...) marketing & and treatment management sales Content Colocation Housing localisation **Financial**

Domain name

functions

EASY AND STRAIGHTFORWARD COMPANY INCORPORATION



Incorporation and registration can be completed in a couple of days

Acquires legal personality immediately

No restrictions relating to the nationality, residence or status of shareholders, directors and managers

Articles may be drafted in English (with a French/German translation)

Any currency may be used for accounting/reporting

Easy work permit procedure for qualified personnel

FINANCIAL SUPPORT



Project funding

- Venture capital schemes, private investment funds and banks
- Medium- and long-term loans and equity stakes by a public bank
- Innovation loan

Public incentives

- SME, research development & innovation, environmental protection and renewable energies, regional areas, innovative start-ups and established players
- General aid scheme to support innovative companies by co-financing their R&D activities
- Special aid scheme for young innovative enterprises to support their financial needs
- Rewarding tax environment

A PERFECT PLACE TO LIVE



Safe

Practical:

Green:

Enjoyable

Cultured:

Educational:

10 REASONS TO GO FOR LUXEMBOURG



1) Active Government support

2) Most central location

3) Multiple highcapacity connections

4) Lowest latency

5) Major Tier 1 and Tier 2

6) Dark fibre

7) Data centres

8) Low and reliable electricity prices

9) Advanced green thinking

10) Data Privacy

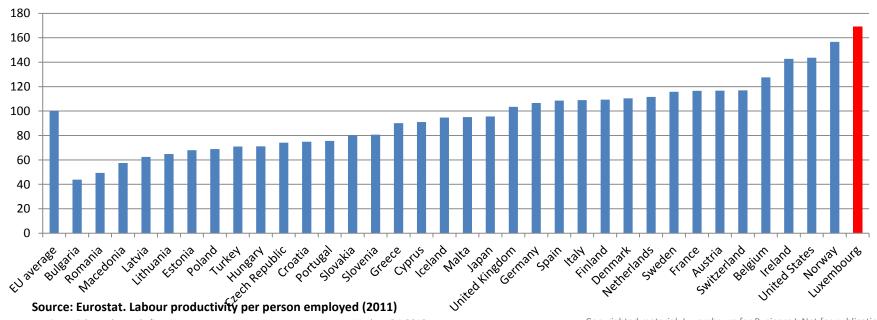
OPTIMISING LABOUR COSTS AND PRODUCTIVITY



2013 figures in euro	Germany	France	Belgium	Luxembourg
Cost for companies	3580	4290	4050	3408
Employers contribution	-580	-1290	-1050	-408
Gross salary	3000	3000	3000	3000
Employees contribution	-613	-657	-392	-367
Taxes on income	-492	-195	-781	-304
Special social security contribution			-27	
Universal social charge				
Personal tax credits				
Net salary	1895	2148	1798	2329

Source salary figures: KPMG - simulation figures based upon single person without children

HIGHEST PRODUCTIVITY IN EU



LUXEMBOURG: CENTRE OF THE "GREATER REGION"



A geopolitical region within Europe, promoting economic, cultural, touristic and social development

- An industrial core area with many urban agglomerations
- Extensive transport network

Key data "Greater Region"

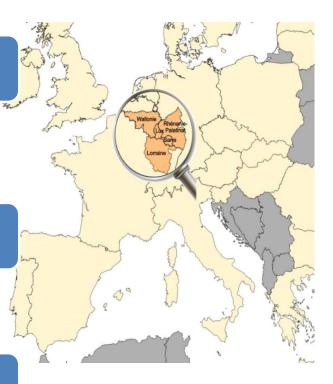
- 11.4 million people in the Greater Region (65,401 km² 25,251 mi²)
- Consisting of
 - Luxembourg as its centre and adjacent regions of Germany (Saarland and Rhineland-Palatinate), Belgium (Wallonia, French- and German-speaking communities of Belgium) and France (Lorraine)

Outcome

- Luxembourg tapping into international and multilingual workforce
- Characterised by a very high number of daily commuters into Luxembourg: 156,000
- Combining most favourable legislations of three countries with a Luxembourg structure

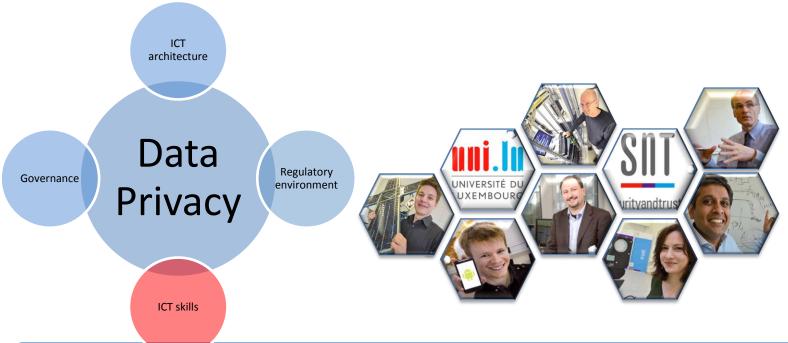
Six universities

- 115,000 students, 6,000 teachers and researchers
- University of Luxembourg Saarland University University of Liège University of Lorraine – University of Kaiserslautern – University of Trier



DATA PRIVACY: R&D IN SECURITY, RELIABILITY & TRUST





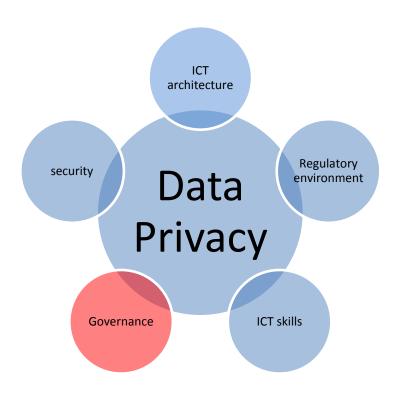
Luxembourg's Interdisciplinary Centre for Security, Reliability and Trust (SnT)

- The Centre brings together university researchers from different faculties to carry out interdisciplinary research and PhD education in Security, Reliability and Trust. The Centre also serves as an interface for external partners such as industries, government bodies, institutions, and international partners with an interest in this research field
- IPv6; Internet of Things, secure location-based services; privacy design
- Security and Trust is one of four priorities of Luxembourg University (SnT)
- March 2013: Google grant for SnT: Spying on spy apps

DATA PRIVACY: GOVERNANCE



Certified procedures, best practices, confidentiality





- 5 datacenters are Tier IV design certified
- 1 datacenter is Tier IV construction facility certified







































