



# Global Forum

Shaping the future **2015**

Global Forum 2015  
in Oulu, Finland  
September Monday 28th &  
Tuesday 29th

*Oulu* Capital  
of Northern  
Scandinavia



Matti Pennanen, Mayor

**OULU**





# *The Vision*

*Oulu,  
Capital of Northern Scandinavia - Innovation Hub*

# *The Values*

*Courage*

*Fairness*

*Responsibility*

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65° 01'N, 25° 28'E

# Oulu Capital of Northern Scandinavia

- Located midway between Asia and North America
- 2nd largest airport in Finland
- Gateway to the Arctic and Lapland
- Urban region with 250 000 inhabitants
- Internationally networked scientific university with six faculties
- Educated citizens – 33% with university degree
- City of 40 000 students
- Youngest population in Europe by 2013 (34 years)



Finland

Russia

Norway

Estonia

**Educational & Cultural Center | Trade and Finance Center | Experience Center | Logistics Center**  
**A good basis of building the future!**

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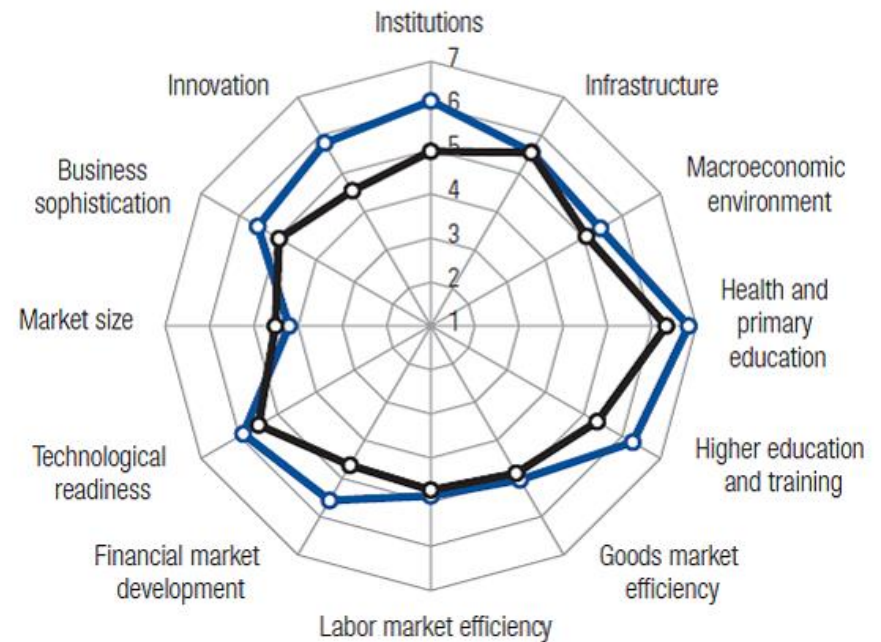
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# Finland: Economy Profile

“Finland - the country undeniably remains one of the few truly Knowledge-based Economies of this World.”

Global Information Technology Report 2013-2014, World Economic Forum

Stage of development



—○— Finland    —○— Innovation-driven economies

# Innovation Center of Finland

- Number 1 in Finland in R&D investments per capita, 5th in EU (10% of GDP R&D related, vs. EU average 3%)
- 2x innovations per capita compared to the Helsinki Capital Area (Foundation for Finnish Inventions qualifies 500 innovations per year from the area)
- World's most agile ICT ecosystem
- Leads radiotechnology, mobile device and 3D internet development
- Due to structural change hundreds of new startups in the area
- New Early Stage VC Fund (Northern Startup Fund)
- Innovation ecosystems to boost the business in new emerging sectors
- OuluHealth – Finland's biggest LivingLab

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# Oulu challenged the world

Full implementation of Li-Fi (Visible Light Communication) <b>2014</b>	<b>2014</b> World's 1 <sup>st</sup> two-front smartphone with inbuilt Electronic Paper Display
World 1 <sup>st</sup> ubiquitous indoor positioning solution <b>2013</b>	<b>2012</b> World's 1 <sup>st</sup> in printed intelligence (PrintoCent Pilot Factory)
WIFIUS –High Capacity NextGen Cognitive Radio Solution <b>2011</b>	<b>2010</b> World 1 <sup>st</sup> cognitive radio network phone call
Linux Phone launch <b>2010</b>	<b>2009</b> 1 <sup>st</sup> Cloud based mobile security services
1 <sup>st</sup> pedestrian navigation phone <b>2008</b>	<b>2007</b> Launch of mobile Wimax test network
1 <sup>st</sup> public NFC user <b>2005</b>	<b>2004</b> 1 <sup>st</sup> commercial Edge high-speed network
1 <sup>st</sup> free urban area WLAN network <b>2003</b>	<b>2002</b> 1 <sup>st</sup> security OTA-services for Mobile phones
1 <sup>st</sup> WCDMA telephone call <b>1996</b>	<b>2001</b> 1 <sup>st</sup> security products for Mobile phones
World's 1 <sup>st</sup> GSM base station <b>1992</b>	<b>1993</b> Modern menu-driven user interface for mobile phone
1 <sup>st</sup> contactless fare collection system for public transport <b>1991</b>	<b>1991</b> 1 <sup>st</sup> GSM phone call
1 <sup>st</sup> NMT network <b>1981</b>	<b>1982</b> Europe's largest technology park

# ICT Focus Areas in Oulu

## CORE COMPETENCE



WIRELESS  
TECHNOLOGY



WIRELESS  
DEVICES

## NEW BREAKTHROUGHS



PRINTED  
INTELLIGENCE



DATA SECURITY



GAME INDUSTRY



3D INTERNET



CLOUD COMPUTING



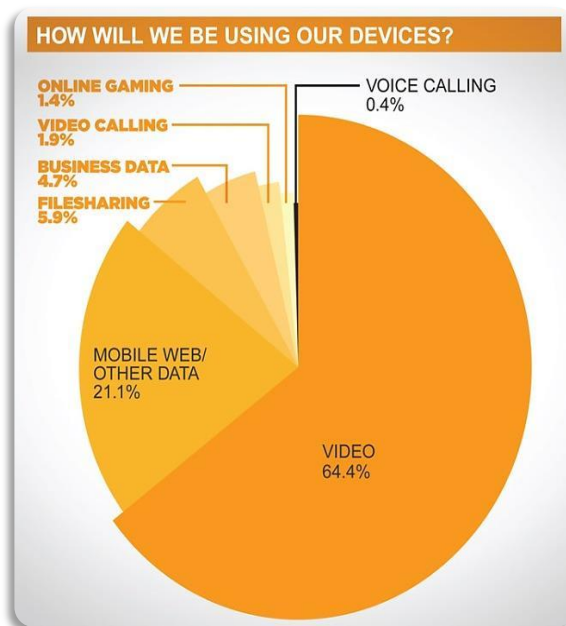
M2M



HEALTH AND WELLBEING



# Wireless World 2020 is created in Oulu today



# R&D Towards Demos and Products

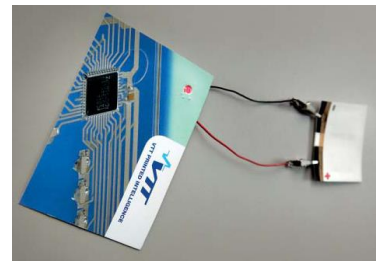
Integrating intelligence into all walks of life



Hot embossed microfluidics



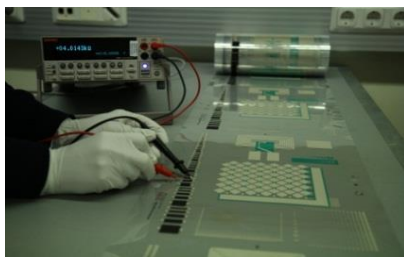
OLED element



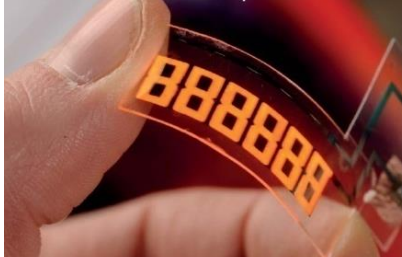
Biobattery



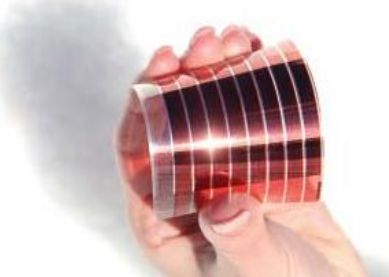
Printed low-cost indicators



Printed passive components



7-segment OLED display



Solar energy module



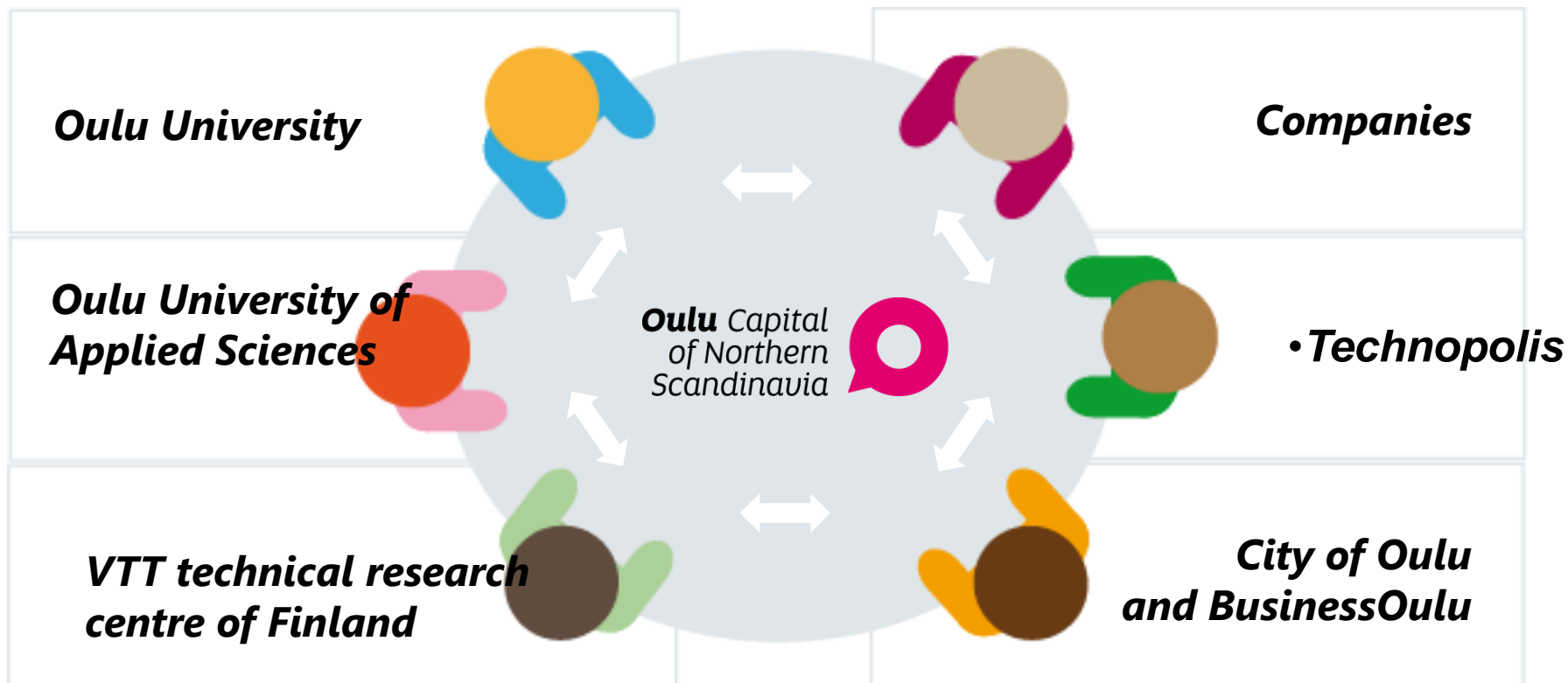
Printed memory (WORM)

# A Leading Wireless R&D Region Globally



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# Oulu Innovation Alliance



A common goal and confidence in developing the area.

# OULU

# Oulu Innovation Alliance: Research Centers



# Leading Global Companies in Oulu region

NOKIA



ARM



MEDIA TEK

POLAR

EXFO



F-Secure

digia

FUJITSU 



SSAB

kemira

OUTO  
KUMPU

metso



Anite

OULU

# Easy access to Oulu

- Located midway between Asia and North America
- Second busiest airport in Finland
- Helsinki and Stockholm within an hour by plane
- Congestion-free urban area
- Free panOulu Wi-Fi covering Oulu region
- **Interactive Screens and Sensor Networks** in the city centre. (World's largest network of large interactive public displays deployed for research purposes)

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## *Global Forum 2015 in Oulu*

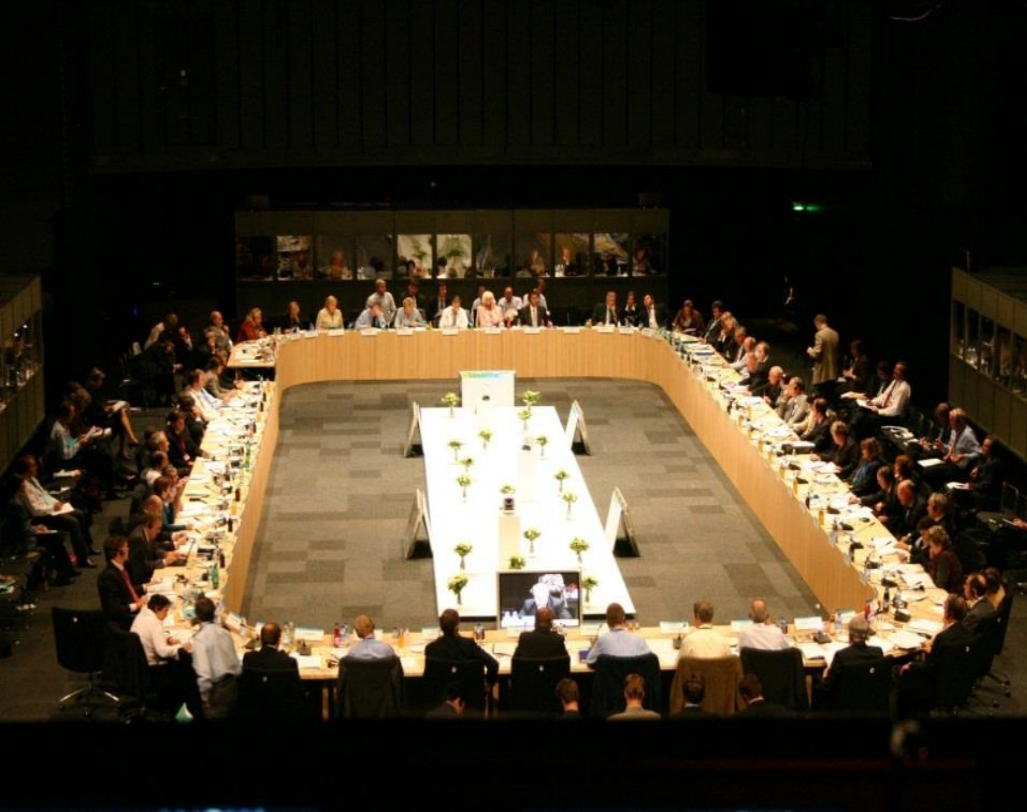
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# Venue: Oulu Theater

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Oulu Capital  
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Venue: Oulu Theater

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# Welcome Cocktail Historical City Hall

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# Gala Dinner

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# Staying over comfortable in Oulu

**Hotel Radisson Blu Oulu**, distance to Venue 200 m <http://www.radissonblu.com/hotel-oulu/location>

Room rates Standard room:

114 € / single room / night

129 € / twin / double room / night

Based on availability we also offer:

Superior room: 144 € / single use / night

159 € / double room / night

Business Class: 164 € / single use / night

179 € / double room / night

Room rates include Super Breakfast (buffet), use of saunas, swimming pool and gym.

Free WiFi is accessible to our guests in all hotel rooms and public areas. All rates and prices are including VAT

**Hotel Scandic Oulu**, distance to Venue 500 m <http://www.scandichotels.com/Hotels/Finland/Oulu/>

Room rates: Standard room: 100 € single room / night  
120 € twin / double room / night  
Superior room: 126 € single room / night  
146 € double room / night

## OULU

Room rates include Breakfast, Wireless Internet, Sauna and gym. All rates and prices are including VAT

*Thank You and  
Welcome to Oulu!*

