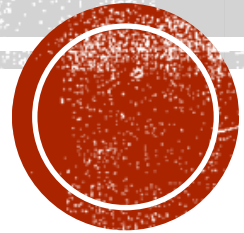
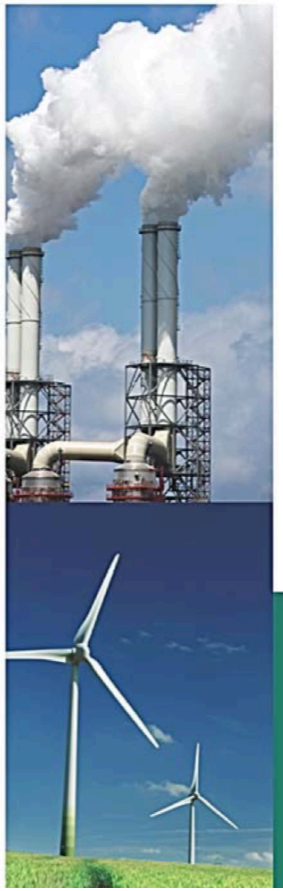
ОБЗОР SMART РЕШЕНИЙ, ПУБЛИКАЦИЙ И КОНФЕРЕНЦИЙ



DIRECTORATE-GENERAL FOR INTERNAL POLICIES

POLICY DEPARTMENT A
ECONOMIC AND SCIENTIFIC POLICY



Economic and Monetary Affairs

Employment and Social Affairs

Environment, Public Health and Food Safety

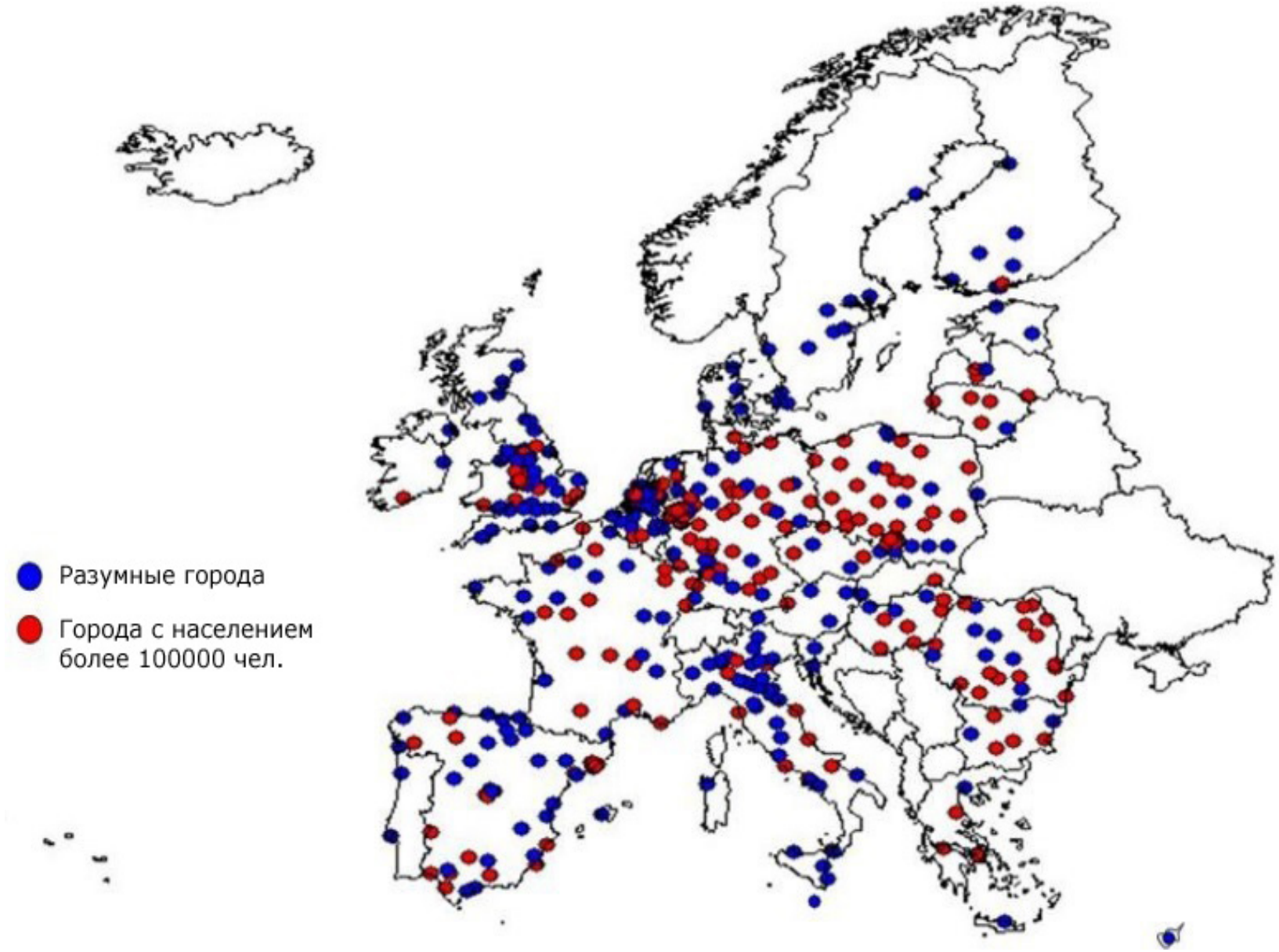
Industry, Research and Energy

Internal Market and Consumer Protection

Mapping Smart Cities in the EU

Table 18: Overview of the characteristics and impacts of generic Smart City solutions

Solution category	Smart City solution	Where implemented	Keywords	Impacts	Cost recovery
Transport and Mobility	Smart cycling plans	Copenhagen, Paris, London	Cycle sharing, social sensors, electric bikes, smart cards	CO_2 emissions reduction, healthy living	Short to medium term
	Integrated multi-modal transport	Copenhagen, London, Helsinki, Glasgow, Hamburg, Tallinn, Milan, Dublin, Ljubljana	Smart tickets, multi-modal travel, travel information and routing, sharing	CO_2 emissions reduction through congestion reduction, increased public transport, enhanced transport and competitiveness	Short to medium term
	Smart Traffic flow system	Barcelona, Eindhoven	Smart vehicle routing, Smart Mobility, sensors, tracking	CO_2 reduction by reducing travel and transit times, enhanced traffic flow due to decreased travel times	Medium term
Building Technologies	Smart building technology and management	Amsterdam, Helsinki, Bremen	Smart and green building technology, demonstrators, Smart plugs, light emitting diode (LED), sensors, room climate	Reduced energy consumption, CO_2 reduction, awareness	Short to medium term
	Smart City lighting	Barcelona, Milan	Street lighting, sensors, central monitoring, LED	Reduced energy consumption, $C0_2$, safety	Short to medium term
Smart Governance	Smart open services platforms	Barcelona, Helsinki, Copenhagen, Malmo, Amsterdam, Dublin	Open services, open data, integrated transport solutions, Smart tickets, mobile apps	Reduced CO_2, private sector information reuse with knock-on effects on environment and energy, jobs and economic growth	Short to medium term
	Single access points for government services –	Barcelona, Manchester	eGov, single services window, online government portals	Reduced CO_2, reduced travel to municipal offices	Short to medium term
	Local integrated sustainability initiatives	Amsterdam, Barcelona, Cologne	Local, Smart Energy management, monitoring and user feedback, self organisation, local coordination	Reduced CO_2 through reduced energy consumption, democracy, inclusion	Short to medium term


Разумные города
Города с населением более 100000 чел.

Ученые CPS

Файл Правка Вид Вставка Формат Данные Инструменты Дополнения Справка Все изменения сохранены на Д

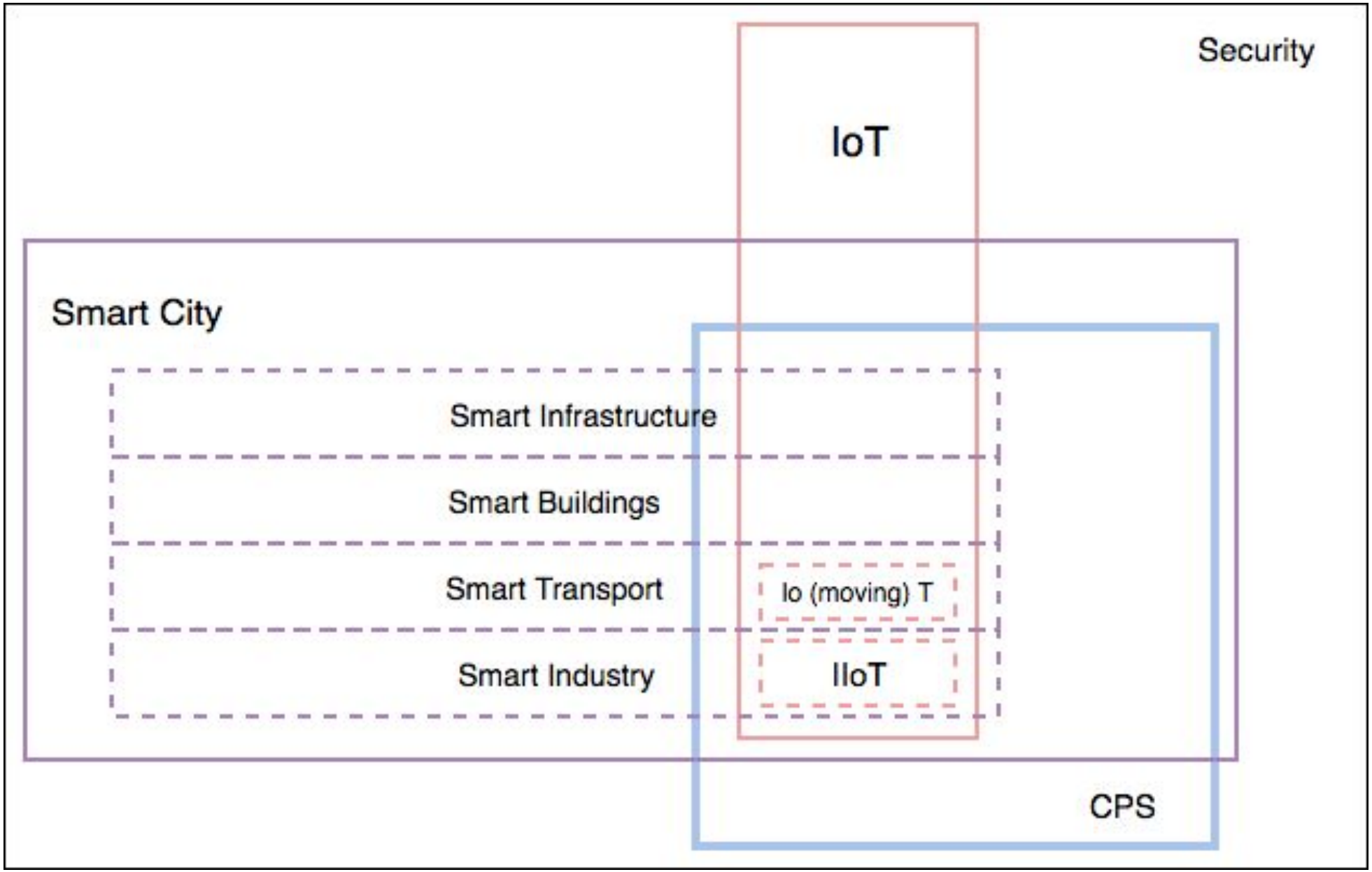
100% p. % .0 .00 123 Arial 10

fx

	A	B	C	D	E	F
1	Задача: Найти 3 ученых с наибольшим числом публикаций по умным домам и городам, или энергоменеджменту, или умным фабрикам					
2	**Слово поиска**	**Ученый**	**Кол-во публикаций с данным словом**	**Ссылка на dblp.dagstuhl.de**	**SCOPUS**	**WoS**
3		Lichen Zhang	36	https://dblp.dagstuhl.de/p		
4	cyber-physical syste	Tomás Bures	25	https://dblp.dagstuhl.de/p		
5		Bruce M. McMillin	24	https://dblp.dagstuhl.de/p		
6		Luis Muñoz	18	https://dblp.dagstuhl.de/p		
7	smart city	Paolo Nesi	18	https://dblp.dagstuhl.de/p		
8		Zaheer Abbas Khan	17	https://dblp.dagstuhl.de/p		
9		Pierfrancesco Bellini	16	https://dblp.dagstuhl.de/p		
10		Masahide Nakamura	5	https://dblp.dagstuhl.de/p		
11	smart house	Shinsuke Matsumoto	5	https://dblp.dagstuhl.de/p		
12		Kwang-Hyun Park	4	https://dblp.dagstuhl.de/p		
13		Di Li	5	https://dblp.dagstuhl.de/p		
14	smart factory	Shiyong Wang	5	https://dblp.dagstuhl.de/p		
15		Jiafu Wan	4	https://dblp.dagstuhl.de/p		
16		Irlán Grangel-González	6	https://dblp.dagstuhl.de/p		
17	industry 4.0	Shiyong Wang	5	https://dblp.dagstuhl.de/p		
18		Yun Li	5	https://dblp.dagstuhl.de/p		
19		Antonio F. Skarmeta	11	https://dblp.dagstuhl.de/p		
20	iot smart	Antonio Puliafito	9	https://dblp.dagstuhl.de/p		
21		Arkady B. Zaslavsky	9	https://dblp.dagstuhl.de/p		
22	energy managemen	Nadeem Javaid	39	https://dblp.dagstuhl.de/p		
23	LoRaWAN	Juha Petäjäjärvi	6	https://dblp.dagstuhl.de/p		
24	nb iot	Fredrik Rusek	5	https://dblp.dagstuhl.de/p		
25		Antonio F. Skarmeta	13	http://dblp.org/search?q=		

60 ученых

- industry 4.0
- smart city
- smart house (smart building)
- smart factory
- cyber-physical system
- energy management smart
- smart office
- industrial IoT
- smart metering
- smart grid
- smart transport
- smart sensors
- и д.р.


Security
IoT
Smart City
Smart Infrastructure
Smart Buildings
Smart Transport
Io (moving) T
Smart Industry
IIoT
CPS

JEITA

Japan
Electronics and Information Technology
Industries Association

https://www.jeita.or.jp/english/

Cutting-edge IT & Electronics Comprehensive Exhibition

CEATEC® JAPAN

What's CPS

What is Cyber Physical System? (PDF)

From Information Society to CPS/IoT Society (PDF)

How will society change in 2020? (PDF)

CPS links

Device Technologies

Panasonic Develops High Precision, Wide Field of View Millimeter-Wave Radar Technology (Panasonic) October 15, 2013

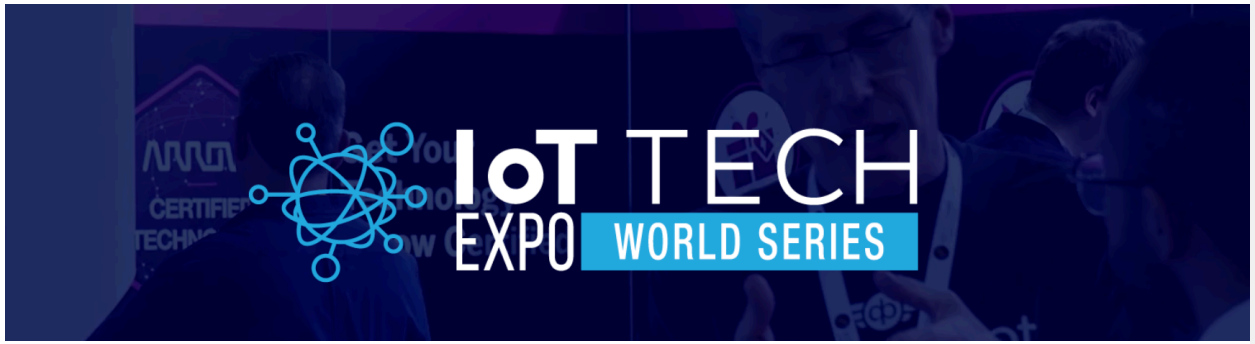
Hitachi Announces to Begin Volume Production of Semiconductor Strain Sensors for IoT (Hitachi) July 3, 2015

Hitachi Developed Basic Artificial Intelligence Technology that Enables Logical Dialogue (Hitachi) July 22, 2015

Fujitsu Develops Industry's First Flexible IoT-Supporting Beacon That Needs No Battery Replacement (Fujitsu) March 25, 2015

Towards Assisting Optimal Human Behavior

Hitachi High-Technologies has Developed a New Wearable Sensor that Measures "Organization



CONFERENCE TRACKS

- Connected Industry
- Connected Transportation
- Connected Enterprise
- Data Analytics for AI and IoT
- Smart Energy & Cities
- Smart Buildings and Infrastructure
- IoT Innovations & Tech
- Developing for the IoT