

Fujitsu Laboratories R&D Strategy Briefing 2012

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Fujitsu Laboratories Ltd.
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Complex issues impacting our lives



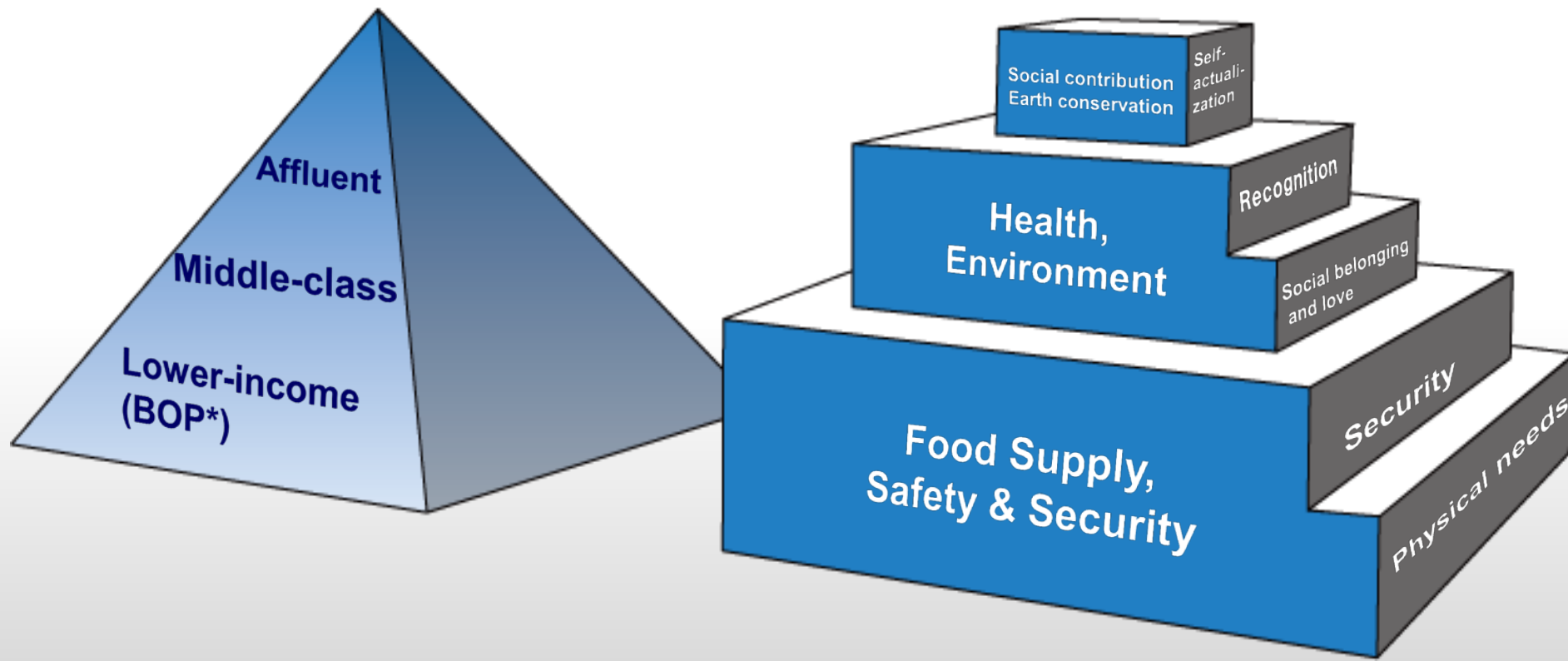
Global issues intricately intertwined

Global crises: Closer world, interrelated impact



Regional issues have worldwide effect in shorter periods of time

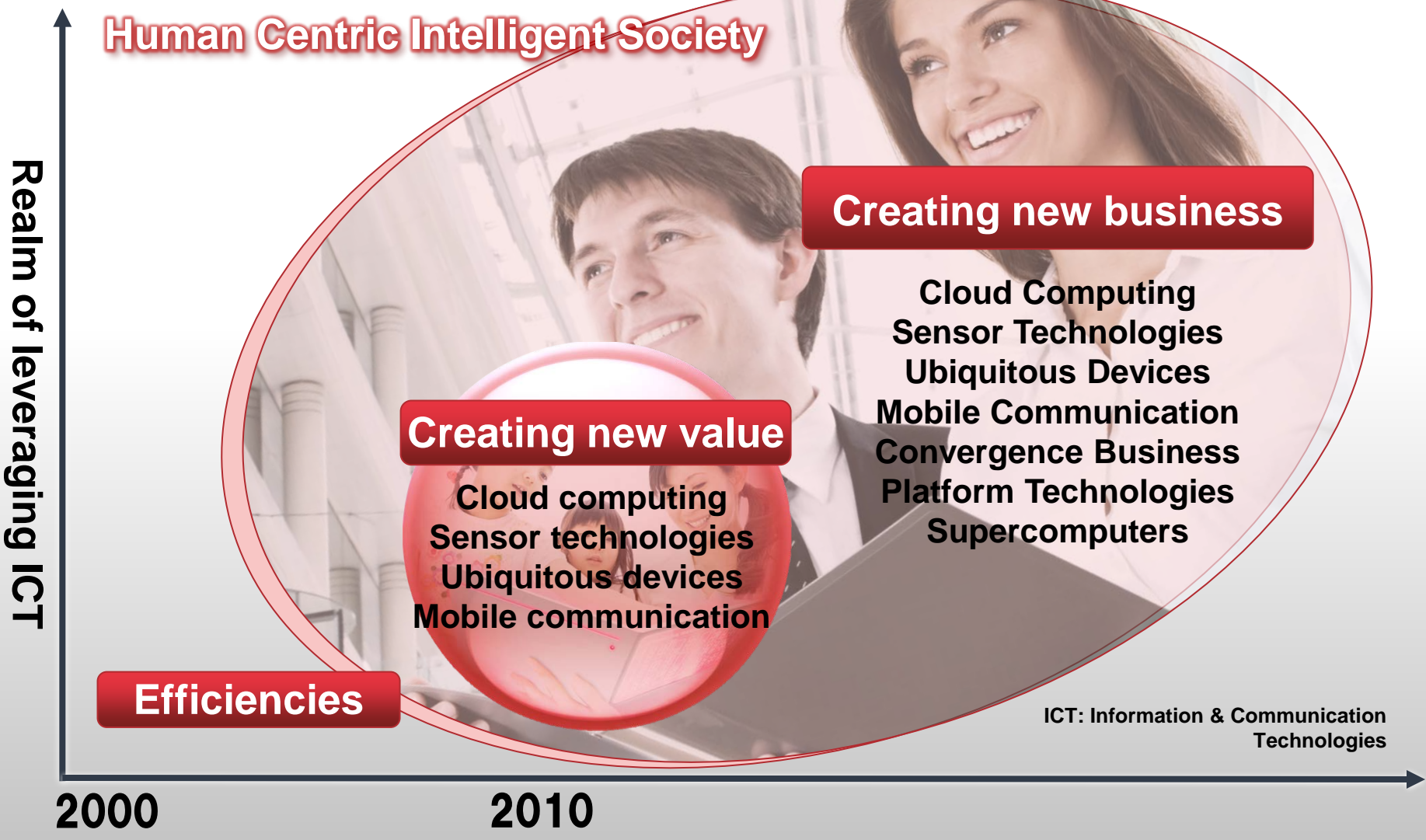
Global markets: Diversified regional needs



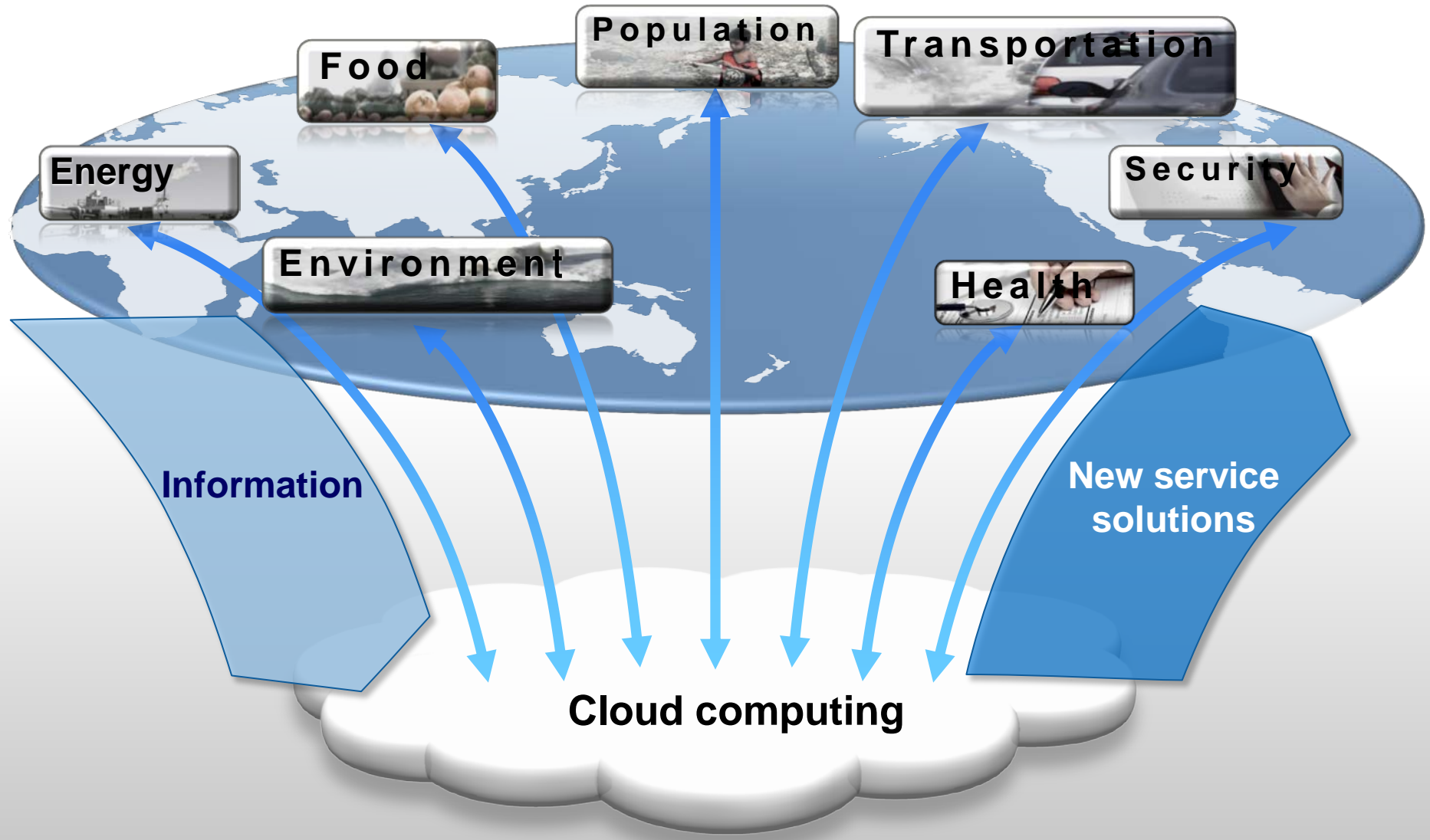
*BOP: Base of the Pyramid

Paradigm shift in ICT

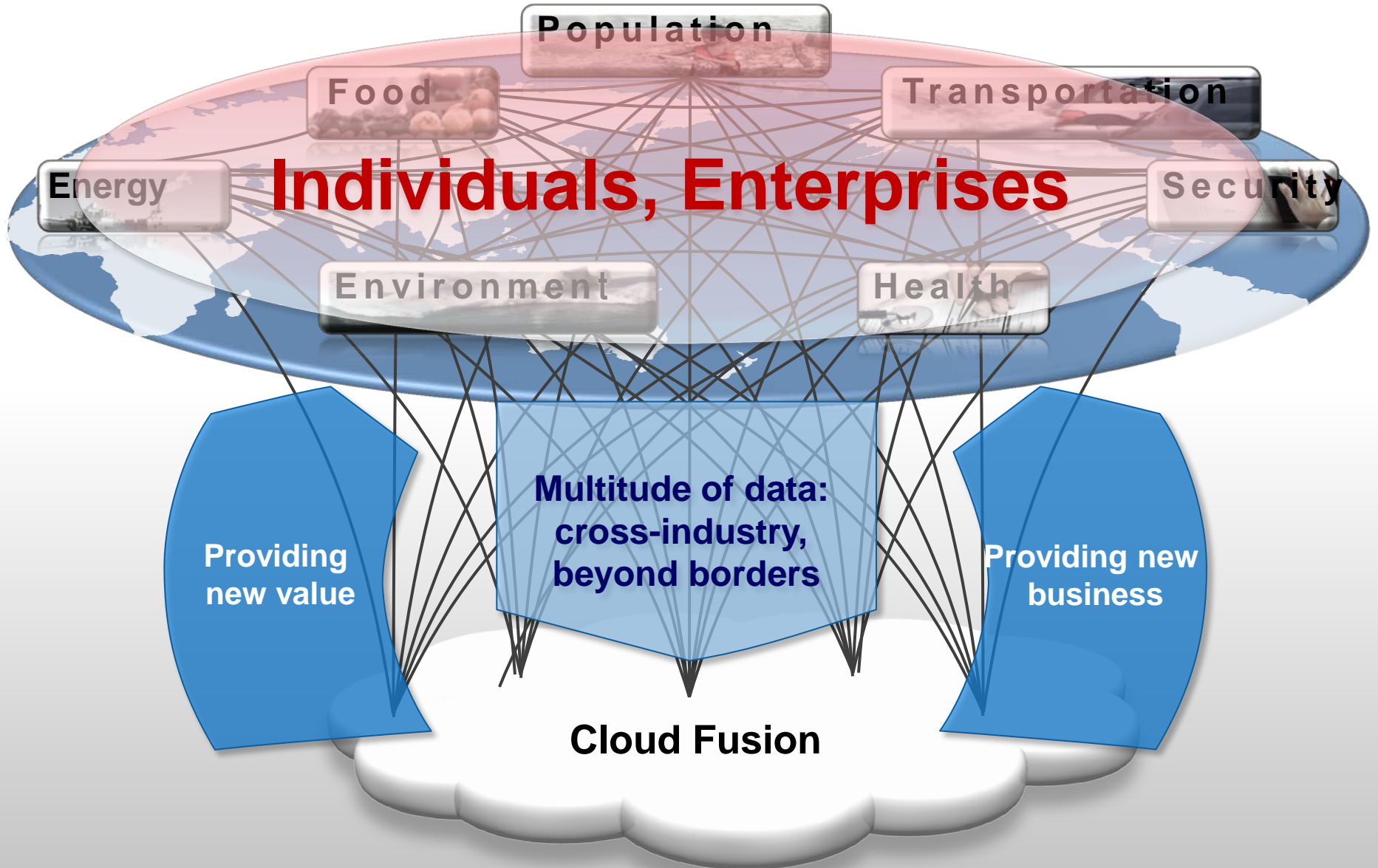
Shift in role of ICT: From mainly providing efficiencies, to creating new business

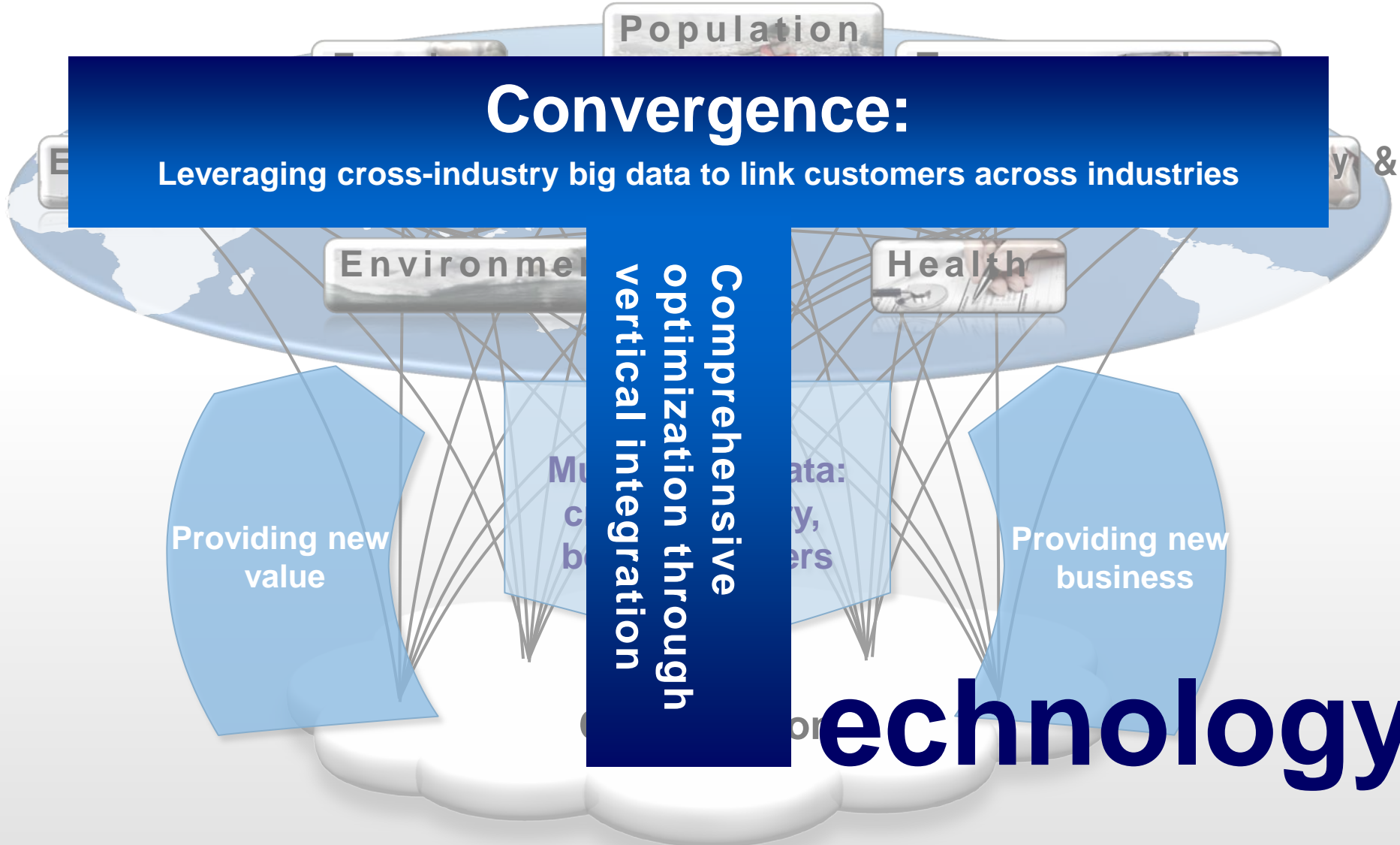


Role of ICT thus far



New roles for ICT hereon





Convergence:
Leveraging cross-industry big data to link customers across industries

Fujitsu Group: R&D Scheme



Create new value and develop new markets
Contribute to core businesses

**Spin-outs:
Ventures**

**Products, services,
solutions**

**Fujitsu Limited and
Subsidiaries**

R&D

**Technology Strategy
Task Force***

**R&D
investment**

**Governmental
Projects**

**Universities
and
Research
Institutes**

Fujitsu Laboratories Ltd.

Technologies and market trends
Customer and partner needs

* Technology Strategy Task Force: Internal committee that determines the R&D strategy of the Fujitsu Group

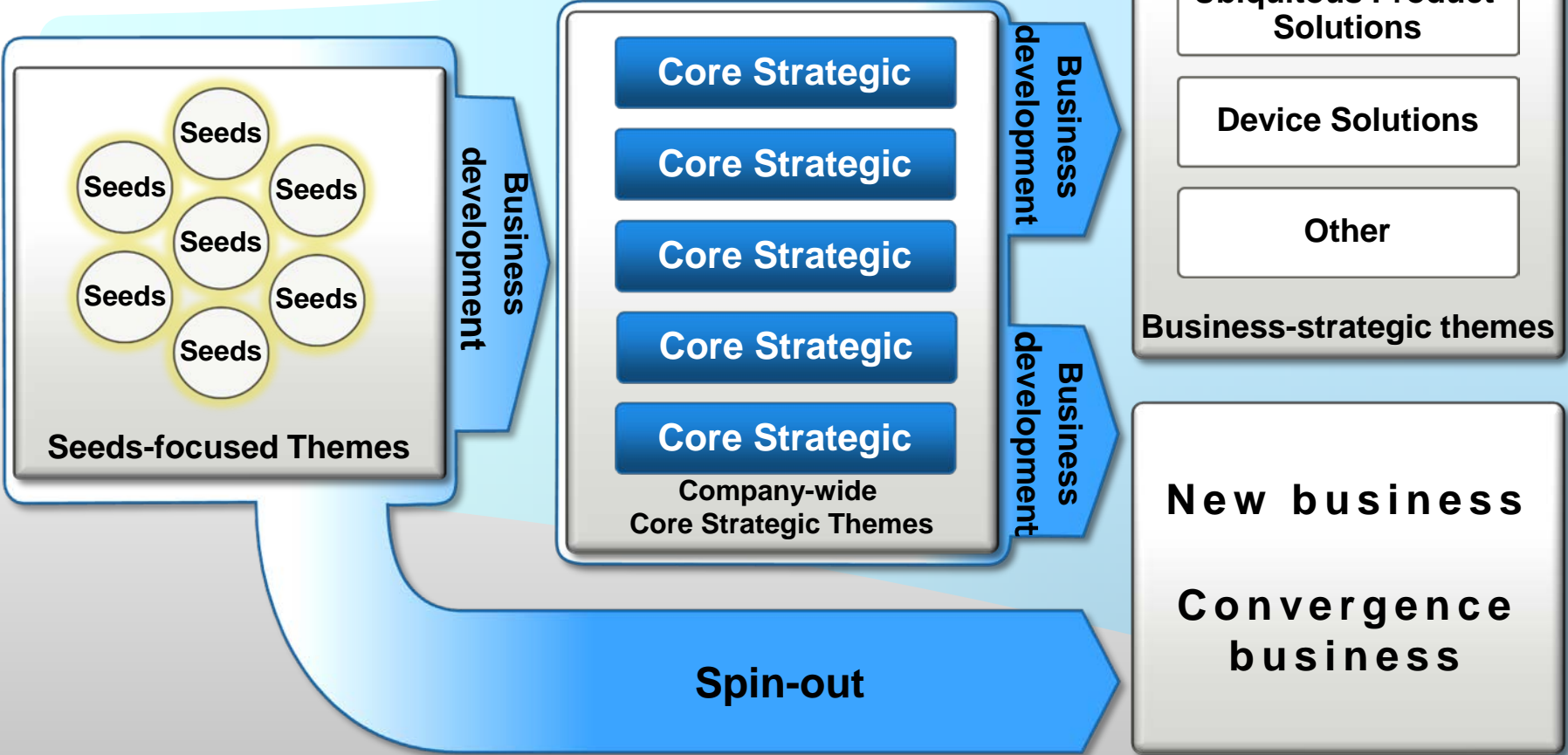
Strategic R&D Themes: Ongoing contribution to strengthen business



Clarify positioning of R&D themes with company-wide future vision

Alignment of business and research, strategic allocation of R&D resources

Fujitsu's current business

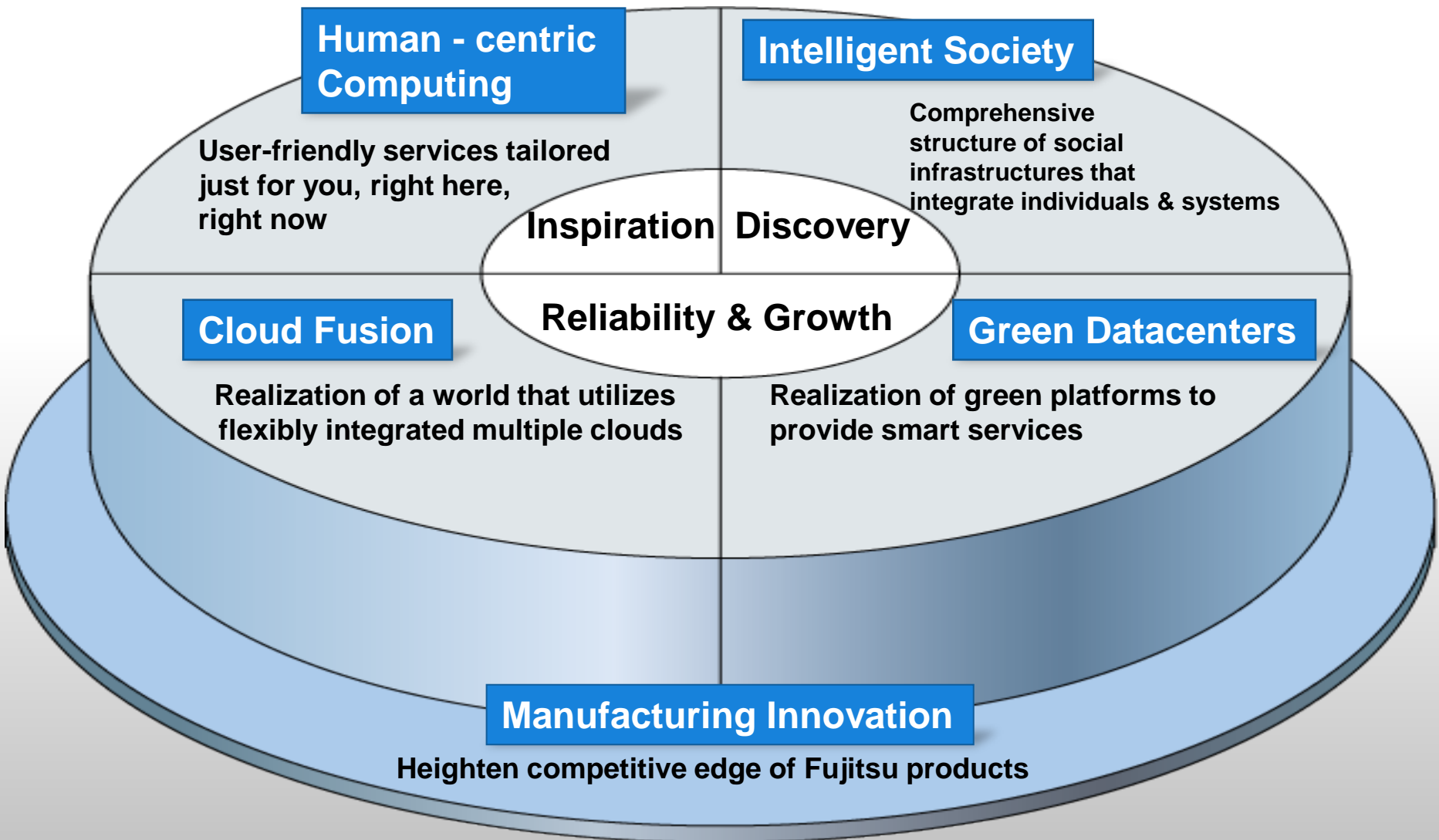


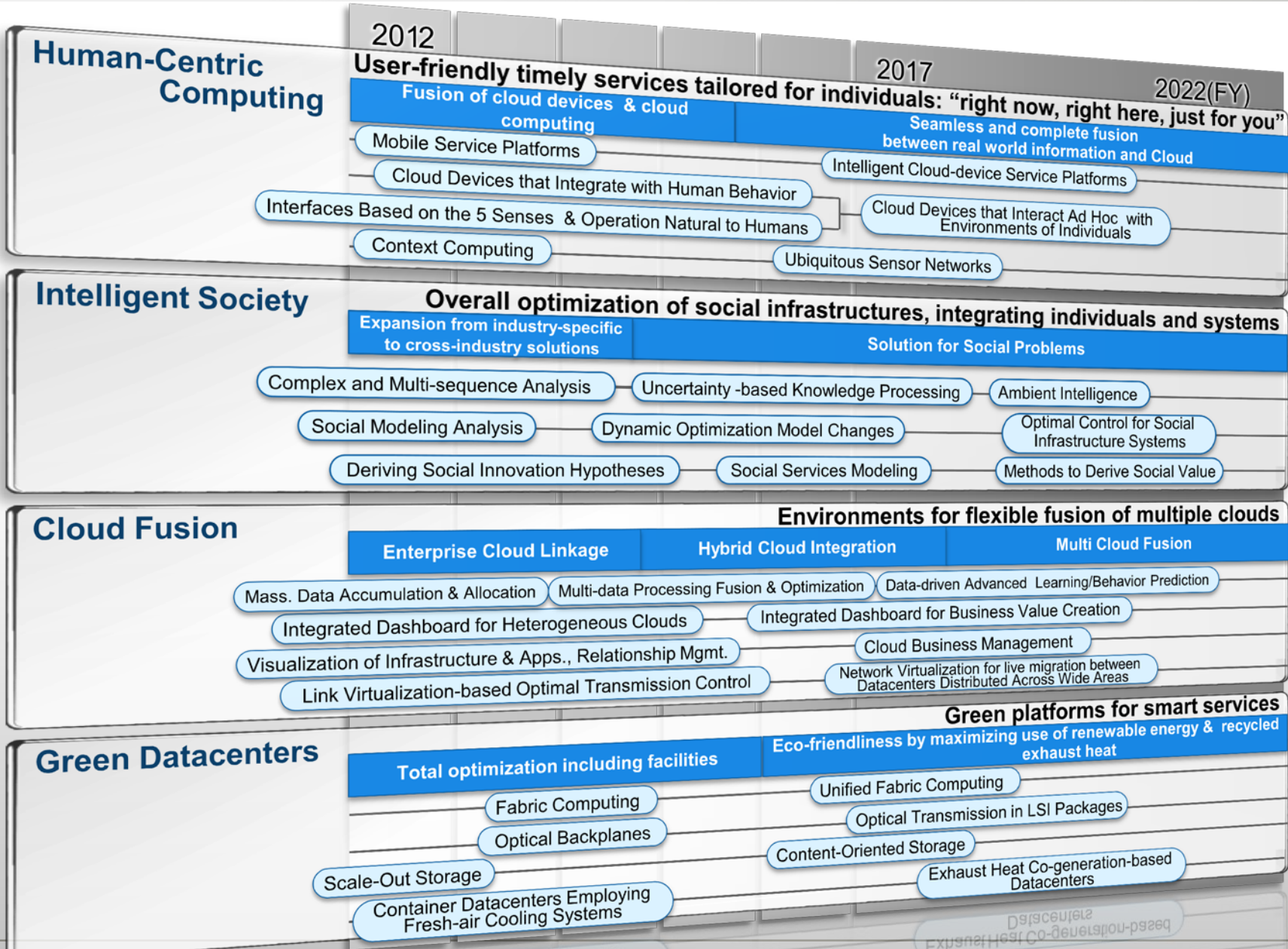
- **R&D to support rebirth of customers, society and Fujitsu:**
Building on continuous “reshaping”
- **Implementation of company-wide Core Strategic R&D Themes**
Flexible technology development that adapts to changes in business portfolio
- **World-class research results: Unknown/unexplored realms**
Unique innovation, edgy technologies
- **Create new global business**
Accommodate big data

FY2012 Company-wide Core Strategic R&D Themes



Realization of a Human Centric Intelligent Society:
Creating new value for the real world through human-centric ICT

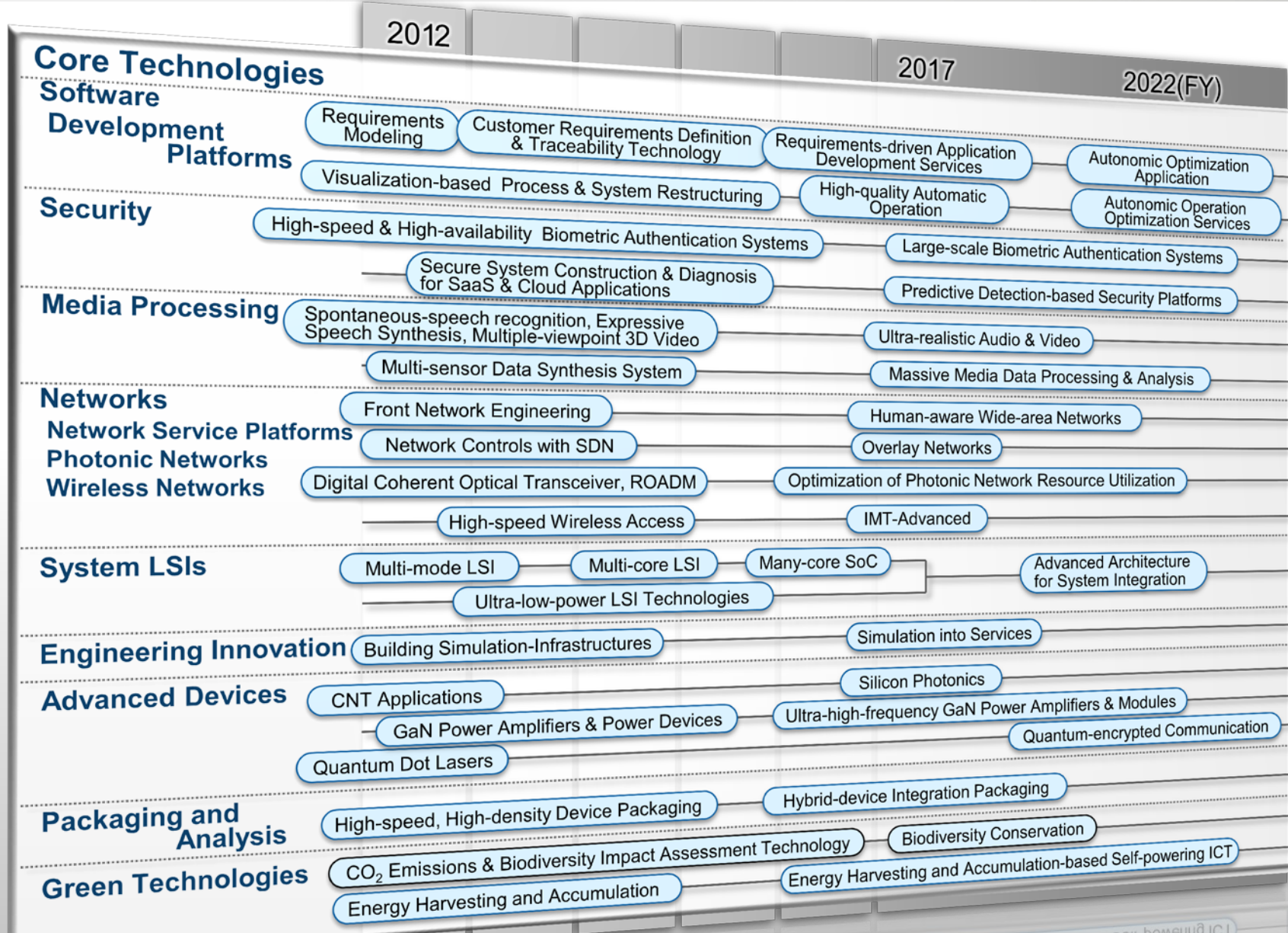




Enabling a Human Centric Intelligent Society

R&D Roadmap FY2012

(FY2012: April 1, 2012 - March 31, 2013)



Robust ICT base to enable a Human Centric Intelligent Society

Open Innovation & Global Partnerships



120 R&D projects in 11 countries worldwide

- Japan: Nanotech. R&D site/Tsukuba (TIA) - Development of ultra-low power devices
- Japan: QD Laser, Inc. (QDL) - Shipments began for quantum-dot lasers for communications
- Singapore: A*STAR - Development of artificial aptamers for diagnosis of cancer and contagious diseases
- Australia National University (ANU): Development of supercomputer simulation software

FY2011 Core-Strategic R&D Themes: Key Achievements

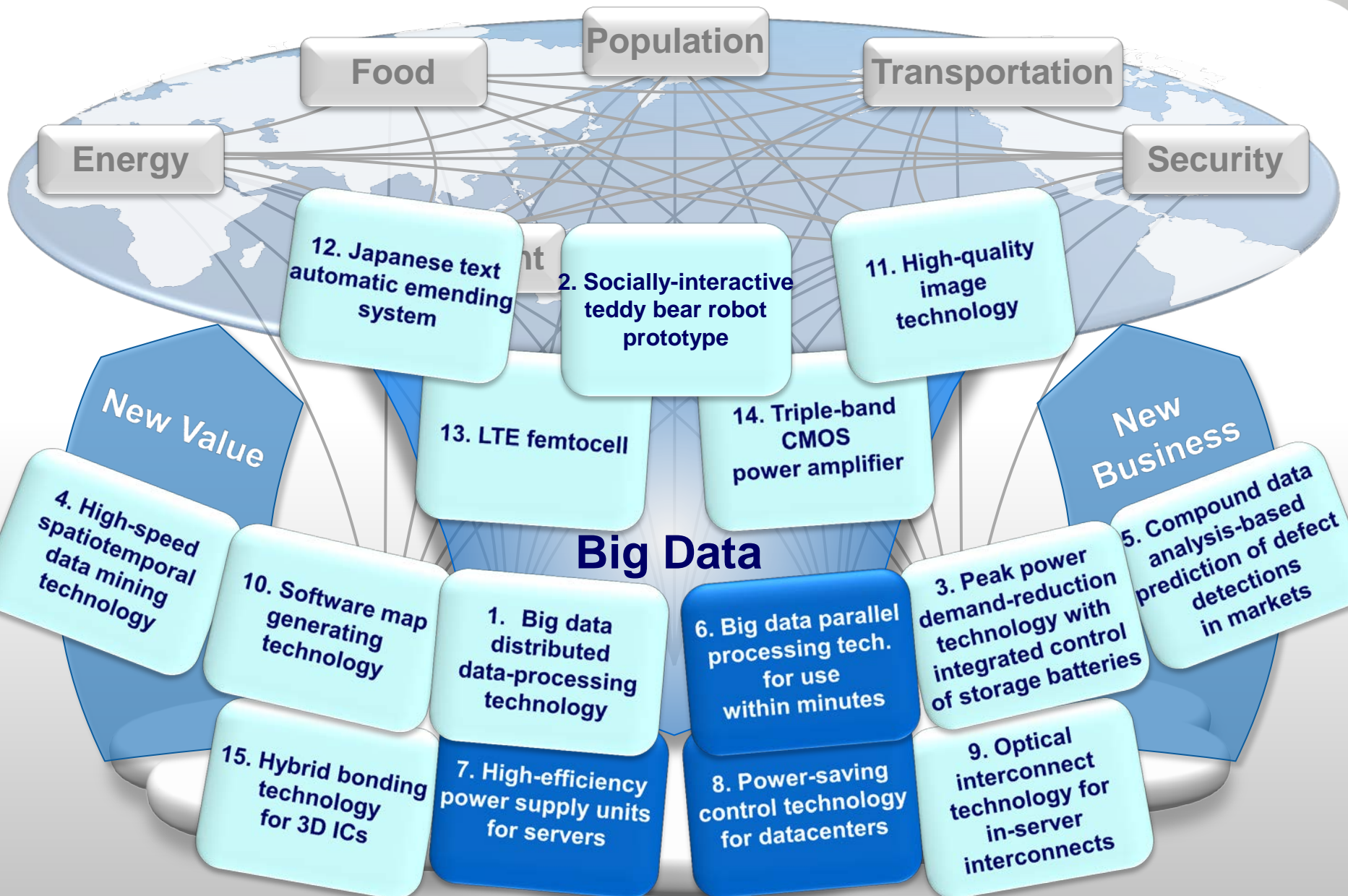
R&D Field	R&D Theme	New Press Release/ Exhibit availability
Human-centric Computing	1. Efficient cloud-based acquisition of big data: Distributed data-processing technology in front network equipment	Exhibit only
	2. Socially-interactive teddy bear robot prototype harmoniously co-exists with and gently monitors users	Exhibit only
Intelligent Society	3. Cloud-based integrated control of storage batteries: Peak power demand reduction for smart cities	Exhibit only
	4. High-speed spatiotemporal data mining identifies events of interest from sensor data	Exhibit only
	5. Compound data analysis-based prediction of defect detections in markets resolves product recall issues posing risks for enterprises	Exhibit only
Cloud Fusion	6. Parallel data-processing technology enables use of big data within minutes by significantly reducing disk I/O	+ Press release
Green Datacenters	7. High-capacity 2.3kW power supply units for servers: Achieves world-class 94.8% conversion efficiency	+ Press release
	8. Power-saving system control technology for datacenters links servers with air-conditioning systems	+ Press release
	9. Optical interconnect technology dramatically expands in-server data-connection bandwidths	Exhibit only


FY2011 Platform Technologies: Key Achievements



Platform Technologies (Categories)	R&D Theme	New Press Release/ Exhibit Availability
Software Development Platforms	10. World's first software map generating technology to leverage application portfolios	Exhibit only
Media Processing	11. Video quality-enhancement technology recommended by SMPTE* enables longer battery life (*Society of Motion Picture and Television Engineers)	Exhibit only
	12. Learning-based Japanese text automatic emending system significantly enhances quality of off-shore software development documents	Exhibit only
Network Services Platforms/Photonic s/Wireless	13. LTE femtocell enables significantly faster indoor wireless communication	Exhibit only
Advanced Devices	14. World's first triple-band single-chip low-power CMOS power amplifier for compact mobile devices enables longer battery life	Exhibit only
Packaging Analysis Platforms	15. Copper-to-copper low-temperature hybrid bonding to realize 3D stacked ICs	Exhibit only

Realization of a Human Centric Intelligent Society





FUJITSU

shaping tomorrow with you

Cautionary Statement

These presentation materials and other information on our meeting may contain forward-looking statements that are based on management's current views and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in such statements. Words such as "anticipates," "believes," "expects," "estimates," "intends," "plans," "projects," and similar expressions which indicate future events and trends identify forward-looking statements. Actual results may differ materially from those projected or implied in the forward-looking statements due to, without limitation, the following factors:

- general economic and market conditions in the major geographic markets for Fujitsu's services and products, which are the United States, EU, Japan and elsewhere in Asia, particularly as such conditions may effect customer spending;
- rapid technological change, fluctuations in customer demand and intensifying price competition in the IT, telecommunications, and microelectronics markets in which Fujitsu competes;
- Fujitsu's ability to dispose of non-core businesses and related assets through strategic alliances and sales on commercially reasonable terms, and the effect of realization of losses which may result from such transactions;
- uncertainty as to Fujitsu's access to, or protection for, certain intellectual property rights;
- uncertainty as to the performance of Fujitsu's strategic business partners;
- declines in the market prices of Japanese and foreign equity securities held by Fujitsu which could cause Fujitsu to recognize significant losses in the value of its holdings and require Fujitsu to make significant additional contributions to its pension funds in order to make up shortfalls in minimum reserve requirements resulting from such declines;
- poor operating results, inability to access financing on commercially reasonable terms, insolvency or bankruptcy of Fujitsu's customers, any of which factors could adversely affect or preclude these customers' ability to timely pay accounts receivables owed to Fujitsu; and
- fluctuations in rates of exchange for the yen and other currencies in which Fujitsu makes significant sales or in which Fujitsu's assets and liabilities are denominated, particularly between the yen and the British pound and U.S. dollar, respectively.