

Fujitsu Laboratories' R&D Strategy Briefing

April 3, 2013

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Complex issues that impact our lives



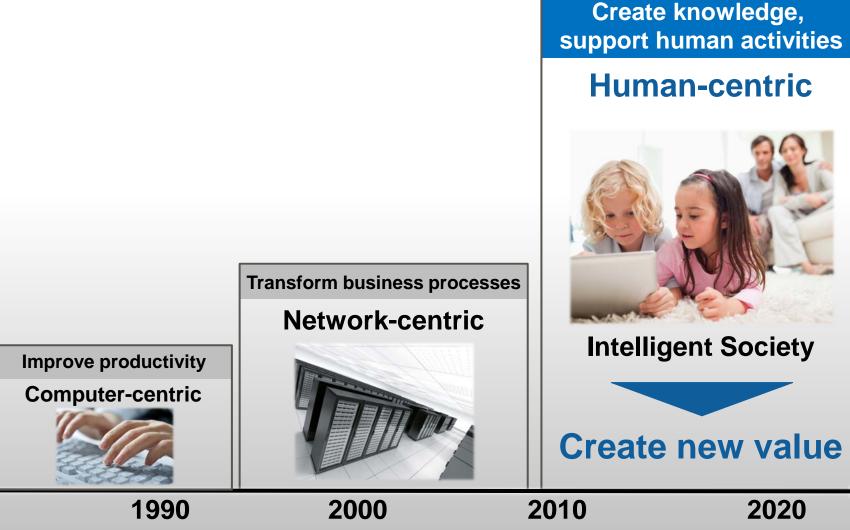


Paradigm Shift in ICT



Shift from "Technology-centric" to "Human-centric": Support of activities that are more people-focused

Scope of ICT Usage



Fujitsu's Vision

Bringing about a "Human Centric Intelligent Society"

Innovation in the domain of human activity

Equipping businesses and society with information

End-to-end optimization

Shared platforms: technological capabilities, quality and reliability, eco-friendly

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Technologies & Services for Achieving Fujitsu's Vision Fujitsu

Strengthen business offerings, deliver uniform services globally

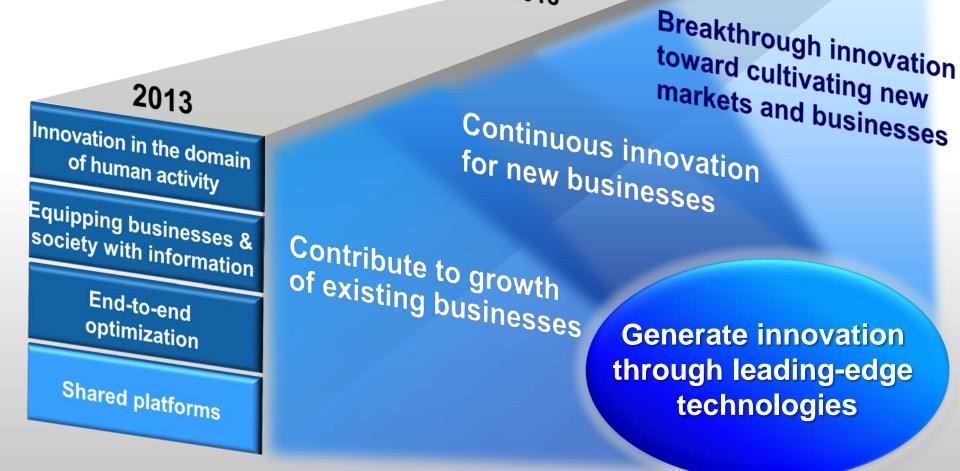
			Marke	ets			
DUSINESSES	Japan	APAC	& China	North America		EMEA	
	Innovation in domain of human activity		Integration				
			Cloud	services	Mobility services		
	Equipping businesses & society with information		Big data & security				
	End-to-end optimization		Integrated and optimized ICT (Modernization, integrated computing, virtualization)				
	Shared platforms: Technological capabilities, product quality and reliability, eco-friendly						
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A Partner for the Global Expansion of Our Customers

Fujitsu Laboratories: Mission

Support the Fujitsu Group's growth by leveraging leading-edge technologies



2018

2023

5

Innovation in Domain of Human Activity

Empowering people and society by integrating real and digital worlds

2023

Support individuals' abilities through use of devices

Discover value by sharing information about objects

Generate new value by sharing information about people, objects, and society

Support abilities of individuals by engaging multiple senses and enabling natural operations Support human activity & daily life via interfaces that appeal to the 5 senses Enhancement of users' abilities through interaction with user environment Offer customized services based on user location & activity

Networks for sharing information about objects Variety of real-world sensor data can be shared across digital world Networks connecting society with people & objects Interconnection of sensors spread throughout society with

people and objects, to deliver fully optimized services



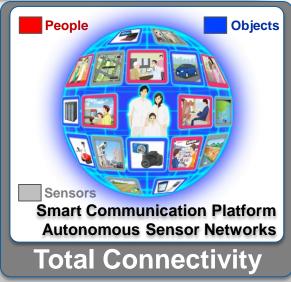
2013

Human Interaction Technology Ultra-Realistic Audio & Video Intent- Recognition-Based Dialogue System

Multi-Sense Interfaces



Contextual Computing Wearable Assistance-Technology Enhanced Abilities



Equipping business & society with information Fujirsu

From individual to cross-industry & society-wide solutions

Utilize cross-industry

data

2013

2023

Utilize data for vertical industries & work tasks

Knowledge Integration from Massive/High-Frequency/Diverse Data Build systematic knowledge from massive data of varying reliability & size to help address problems **Customized Information Provision** Offer customized, valuable data & support decision-making based on surroundings, environmental impact & future projections

SaaS and Cloud Security Platforms Developing specialized security gates and performing real-time data protection to guard personal and enterprise data Predictive Security Platform Build infrastructure-wide cyber security platform to prevent & respond to attacks, predictive measures also taken



Unstructured-Data Forecasting Automated Analytics Process

Leveraging Massive Data





Utilize society-wide

data

End-to-End Optimization

2013

FUJITSU

Deliver ICT platforms that rapidly adapt to ever-changing businesses & society

2023

Total ICT management for customer businessesSupport, services and fully optimizedOptimize the infrastructure that
supports enterprise ICTICT infrastructure that meet the needs
of a changing society

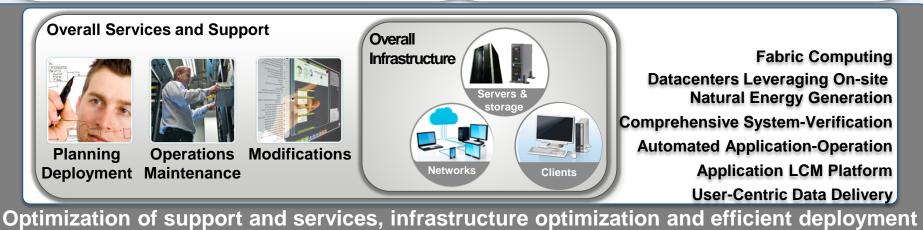
Added Value through Application LCM Support business growth through total management services ranging from application deployment and operation to maintenance and revision

Wide-Distribution Deployment of Apps and Data & Effective Usage of Network/Server Resources Dynamically respond to business fluctuations by providing server resources that meet user needs, and through network-wide distributed processing

Formulating Growth Strategies Using a Data Collection and Analysis Platform Support sustainable growth via a platform for analysis and reuse of accumulated customer data

Global Collaboration of Server Resources Employing Proactive Networks

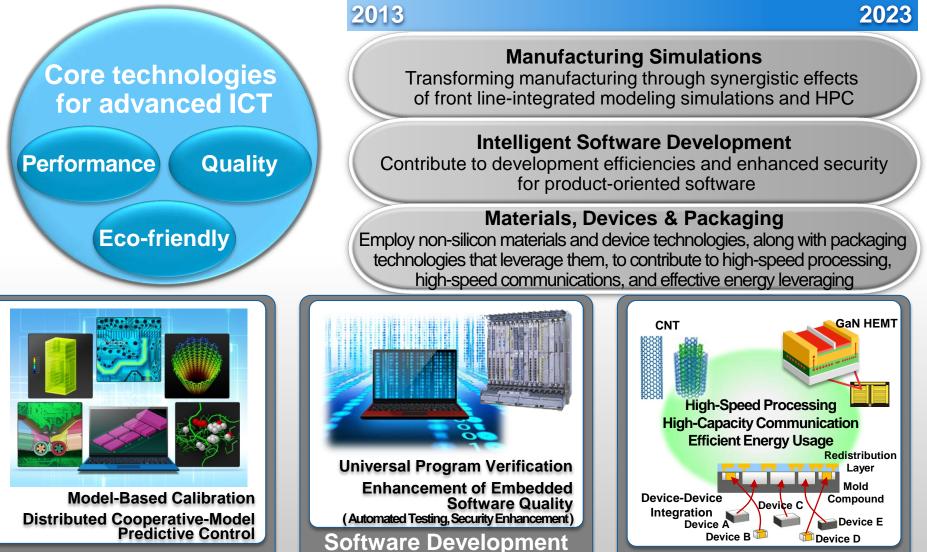
Use optimal-quality network services adapting to change to enable optimized operation of global-scale computer resources



Shared Platforms

FUjitsu

Advanced technologies for achieving a Human Centric Intelligent Society

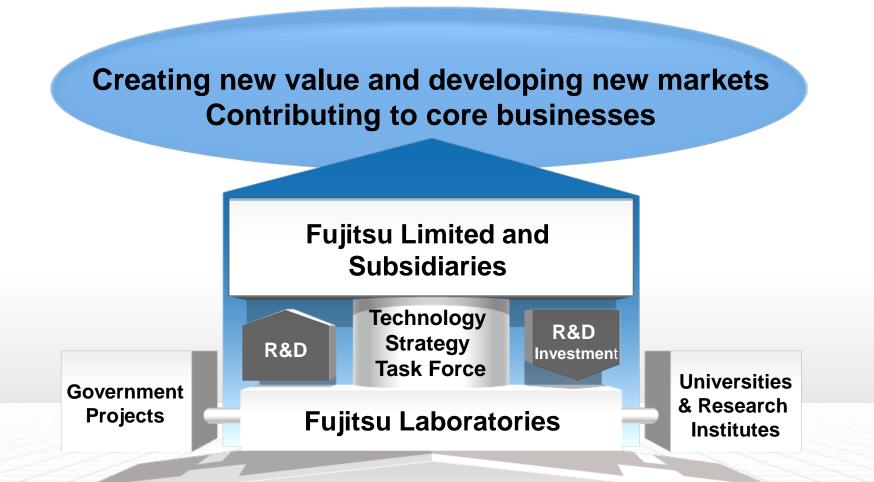


Manufacturing Simulations

Materials, Devices & Packaging

& Manufacturing

Fujitsu Groups: R&D Scheme



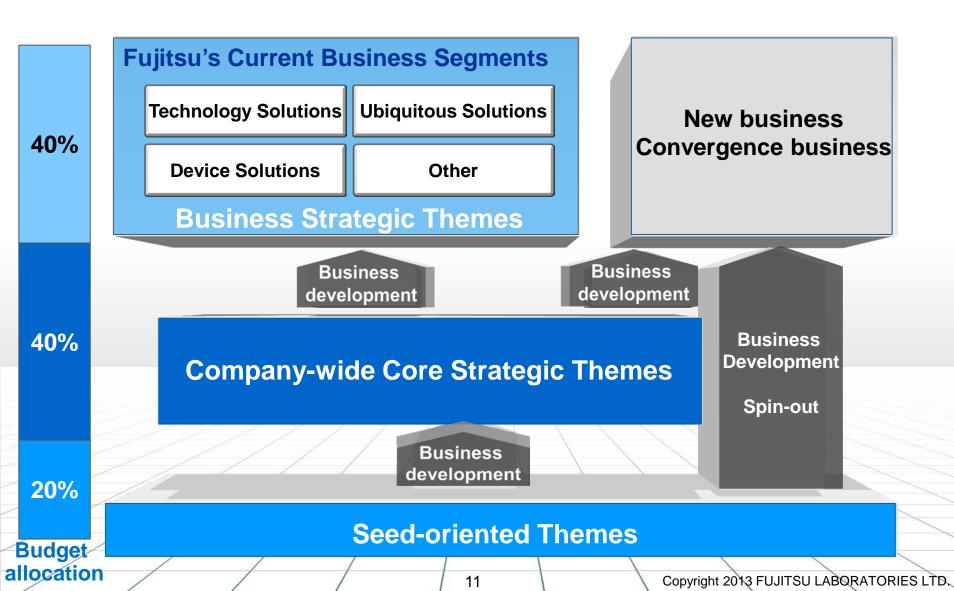
Technologies and market trends / Customer and partner needs

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Strategic R&D Themes



- Clarify positioning of R&D themes, eyeing future of Fujitsu Group
- Consistency of R&D themes with business; R&D resources: strategic allocation



Transformation of R&D Themes



Previous Business-Strategic Themes

Previous Core Strategic Themes Human Centric Computing Intelligent Society Cloud Fusion Green Datacenters Manufacturing Innovation

Previous Seeds-Oriented Themes **Business-Strategic Themes**

New Core Strategic Domains

Ubiquitous Innovation

Contribute to development of front-end technologies and services important for interfaces between people and ICT, sensing, and massive data collection

Social Innovation

Help to address societal issues and expand industry tie-ins and other societal business based on integrated simulation platforms that include human behavioral models

ICT Innovation

Develop integrated ICT platforms and network-wide distributed virtual processing platforms that enable workload optimization to flexibly accommodate customer value targets

Manufacturing Innovation

Contribute to the Fujitsu Group's product portfolio through hardware/software technologies for groundbreaking product creation, leveraging related technologies, and by advancement/accumulation of technologies for manufacturing innovation

Seeds-Oriented Themes

Fujitsu's Business

Innovation in the domain of human activity

Equipping businesses & society with information

End-to-end optimization

Shared platforms

Strengthening Strategic Initiatives for Breakthrough Innovations



- Build cross-organizational ties throughout the Fujitsu Group, formulate strategic initiatives, and strengthen management of early-stage R&D starts
- Enhance support for global business development at global laboratories of Fujitsu Laboratories Group

Life Innovation R&D Advancement Office

Striving toward realization of a society that is prosperous and fulfilling for its inhabitants, proposes research direction pertaining to life innovation.



Mobility R&D Advancement Office

Advises R&D direction for mobility, an increasingly important area for ICT. Organically links technologies spread across different research units and enhances technology acumen and research.



Established designated organizations for 2 segmented fields to propose R&D direction for new markets/businesses and initiate such development.

ATO^{*} Advancement Office

*ATO: Academic Technology Outlook

Gathers academic data held by internal research units worldwide, conducts studies to supplement lacking information, and leverages such information to disseminate a bird's-eye view of R&D trends and guidance.

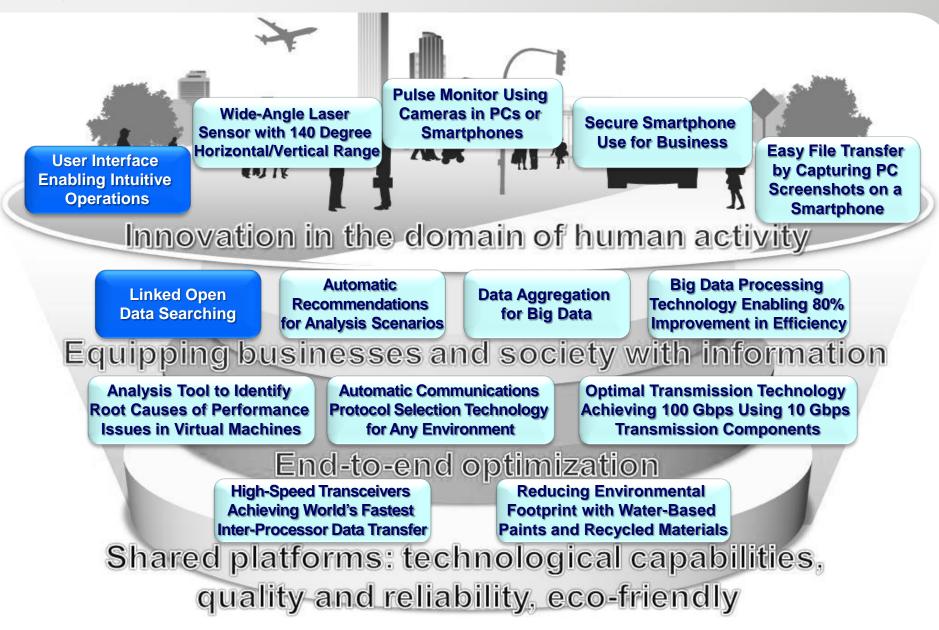
Open Innovation Advancement Office

In addition to ongoing support to build research partnerships comprised of internal research units with external research entities, organically links such initiatives to create new value for Fujitsu Laboratories as a whole, and accelerates preparations for related technological development.



Established designated organizations to enable greater attunement of technology data and trends, and for enhancing innovation for key-focus technology fields

Major Achievements in FY2012 April 2012 - March 2013 FUJITSU



List of Major Achievements in FY2012 (1) FUJITSU

R&D Area	R&D Theme	Press Releases
	Fujitsu Develops Next-Generation User Interface for Intuitive Touch-Based Operations Enables innovative handling of data by directly touching actual objects	NEW
Innovation in the	Fujitsu Develops World's First Super-Wide-Angle 3D Laser Radar with a Horizontal and Vertical Range of 140 Degrees	Previous
domain of	Fujitsu Develops Real-Time Pulse Monitor Using Facial Imaging	Previous
human activity	Fujitsu Develops Platform Technology for Secure Application Execution on Smartphones for Business Use	Previous
	Fujitsu Develops Easy Way to Transfer Files with Video of PC Screens Shot by Mobile Devices	Previous
Equipping business &	Fujitsu and DERI Revolutionize Access to Open Data by Jointly Developing Technology for Linked Open Data Promoting open data usage with world's first freely available storage and query platform that utilizes Linked Open Data	NEW
society with information	Fujitsu Develops Industry's First Technology that Automatically Offers Analysis Scenarios for Big Data	Previous
	Fujitsu Develops World's First Stream Aggregation Technology to Rapidly Process Both Historical Data and Incoming Data	Previous
	Fujitsu Develops Industry's First Integrated Development Platform for Big Data	Previous

List of Major Achievements in FY2012 (2) FUITSU

R&D Area	R&D Theme	Press Releases
	Fujitsu Develops World's First Performance Analysis Tool that Identifies Root Causes of Performance Issues in Virtual Environments	Previous
End-to-end optimization	Fujitsu Develops World's First Automatic Protocol Selection Technology for Any Environment	Previous
	Fujitsu Develops First Optical Transmission Technology to Achieve 100 Gbps Using 10 Gbps Transmission Components	Previous
Shared	Fujitsu Achieves World's Fastest Transceivers of 32 Gbps for Inter-Processor Data Communications	Previous
platforms	Fujitsu Pioneers Industry's First Use of Water-Based Paint for Plastic Chassis ICT Equipment	Previous

Generating Innovation through Leading-Edge Technologies

Striving to achieve sustainable growth for society

Seeking to bring about a prosperous society where people can live in security

FUJTSU

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.