
VISUALIZE THE FUTURE



Fiscal Year Ended March 31, 2016

Results Briefing

Digital Media Professionals Inc.

May 17, 2016

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1

**Explanation of Results,
Fiscal Year Ended March 31, 2016**

2

**Progress Report on Medium-Term
Management Plan**

3

**Performance Forecast,
Fiscal Year Ending March 31, 2017**

4

**Reference materials:
Medium-Term Management Plan (Fiscal Year Ended
March 31, 2014 - Fiscal Year Ending March 31, 2019)**

1

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1. Overall Semiconductor Market

Global

- Fall in smartphone demand having an effect, but semiconductor demand for in-car devices and industrial instruments trending favorably
- Mergers and acquisitions continue among major semiconductor vendors
- Gentle growth continued at +1.4% in 2016 and +3.1% in 2017, with market size for 2017 anticipated to be US\$351.6 billion*

Industry restructuring trend to speed up

Domestic

- Number of ASIC-based development projects reduced due to steep rise in semiconductor development costs
- Gentle growth of +2.3% annually anticipated from 2014 to 2017 in domestic demand, and market size for 2017 anticipated to be ¥3,936.2 billion*

*World Semiconductor Trade Statistics (WSTS), Japan Chapter, as of December 1, 2015

2. Visual Computing Field

- Rapid growth averaging +32.8% annually from 2014 to 2019 is anticipated for the domestic IoT market, with the market growing to ¥715.9 billion by 2019*¹
- The global in-car electronics market is expected to grow to approx. ¥34 trillion by 2020*². Use of IT in automobiles will increase, and in-car sensors and displays will continue to add functionality.
- GPU-based deep learning technology will reach the implementation stage, and AI will evolve to a considerable degree (e.g., AlphaGo)



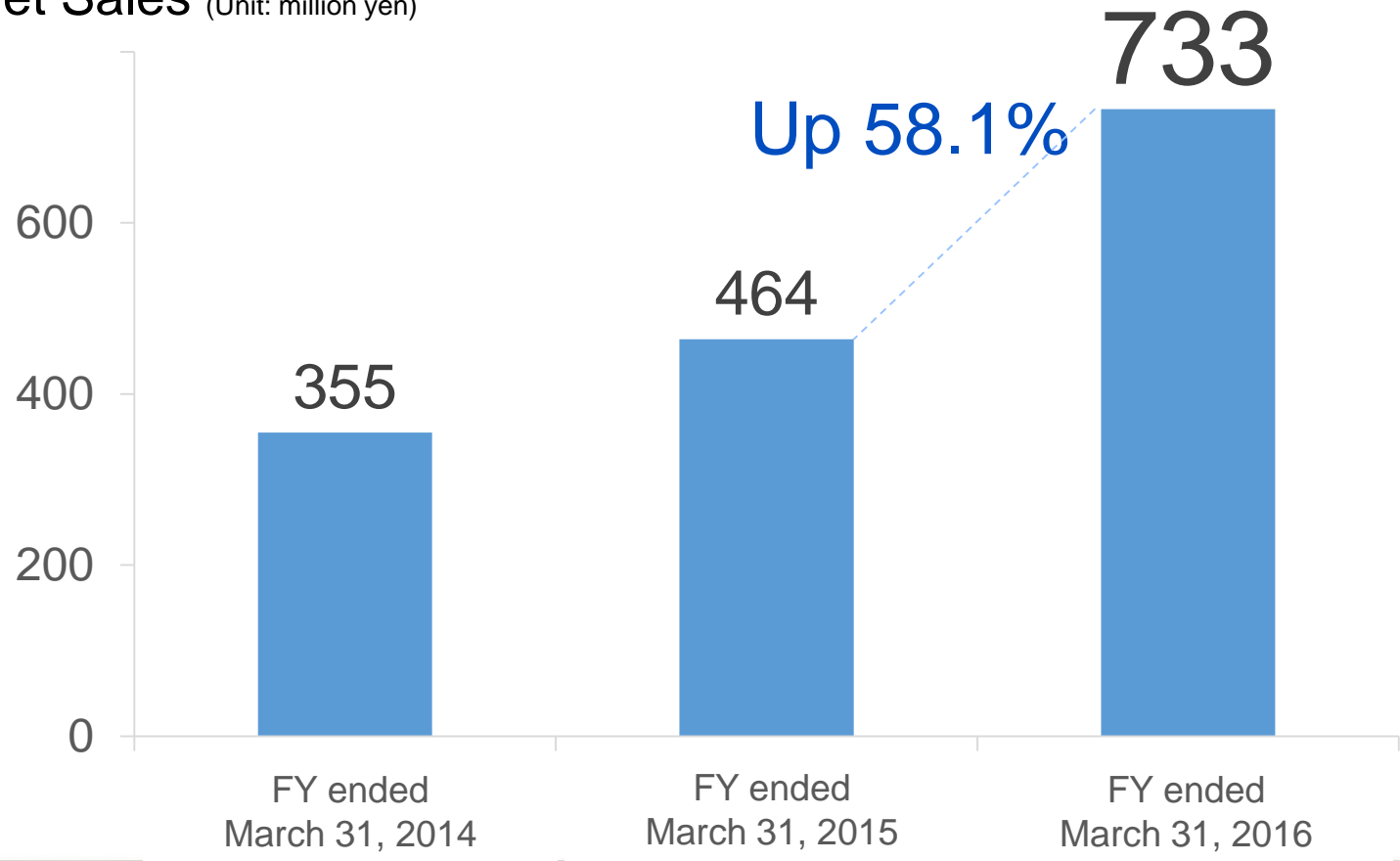
*1: MM Research Institute, as of January 20, 2016

*2: Japan Electronics and Information Technology Industries Association (JEITA)

Results Highlights

- ✓ Net sales **rose 58.1%** year-on-year due to beginning shipments of the VF2 next-generation LSI, core to the medium-term management plan

Net Sales (Unit: million yen)



Profits improved tremendously due to rise in net sales

(Unit: million yen)	FY ended March 31, 2015	FY ended March 31, 2016	Compared to previous FY	
			(Amount)	(Increase- decrease rate)
Net sales	464	733	269	58.1%
Operating loss	-462	-176	285	—
Ordinary loss	-265	-193	72	—
Current net loss	-311	-64	247	—

R&D costs generated by LSI development had an effect

Amount of loss reduced due to inclusion of ¥129 million in extraordinary income due to sale of shares in CogniVue Corp. (Canada)



IP Core Licensing Field

Income was generated from new licenses for medical device applications and from licenses for next-generation products from existing customers, as well as from new running royalties resulting from customers bringing products to market. However, there was a softening in the market for customers' products, and overall conditions for the field were bearish.

TOPICS

SMAPH-F 2D vector graphics IP core used by Renesas in LSIs for OA equipment (announced January 12, 2016)

SMAPH-F

- Adds support for the OpenVG 1.1 2D vector graphics standard from Khronos Group, which drafts specifications for graphics APIs.
- Boasting of small silicon size and moreover rendering performance that ranks among the top in the industry, employed for a variety of both consumer and industrial applications.





SoC/Module Business Field

Began mass production and shipping of VF2 high-performance graphics semiconductor with development having been completed, contributing greatly to sales

— TOPICS

Amusement equipment-gearred VF2 high-performance graphics LSI begins mass production, shipping

VF2

- An LSI that achieves industry-leading power performance, with all of DMP's technologies wielded to consolidate on one chip 3D graphics capabilities and 2D image coding functions.
- The DMP spirit of depicting the future through graphics technology is imbued in the name of this product derived from our "Visualize the Future" corporate motto.

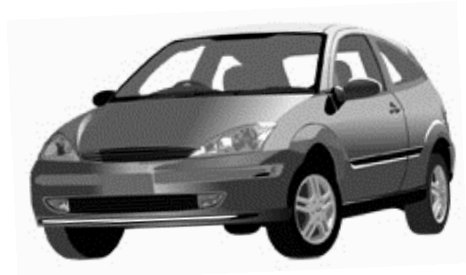


Professional Services Field

Tone set for expansion with having won numerous new proposals in the image recognition field and received commissions to design image-processing semiconductors

TOPICS

Decision made to install DMP-made image processing software on fleet cars of a major automobile manufacturer



Fiscal Year Ended March 31, 2016

Results Summary (B/S)



(Unit: million yen)

	End of March 2015	End of March 2016	Increase-decrease amount
Current assets	2,012	1,984	-28
Non-current assets	113	260	146
Total assets	2,126	2,244	118
Current liabilities	52	226	173
Non-current liabilities	19	18	-0
Total liabilities	72	245	173
Total net assets	2,054	1,999	-54
Total Liabilities and Net Assets	2,126	2,244	118

- Equity ratio high at 88.9%

1

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2

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3

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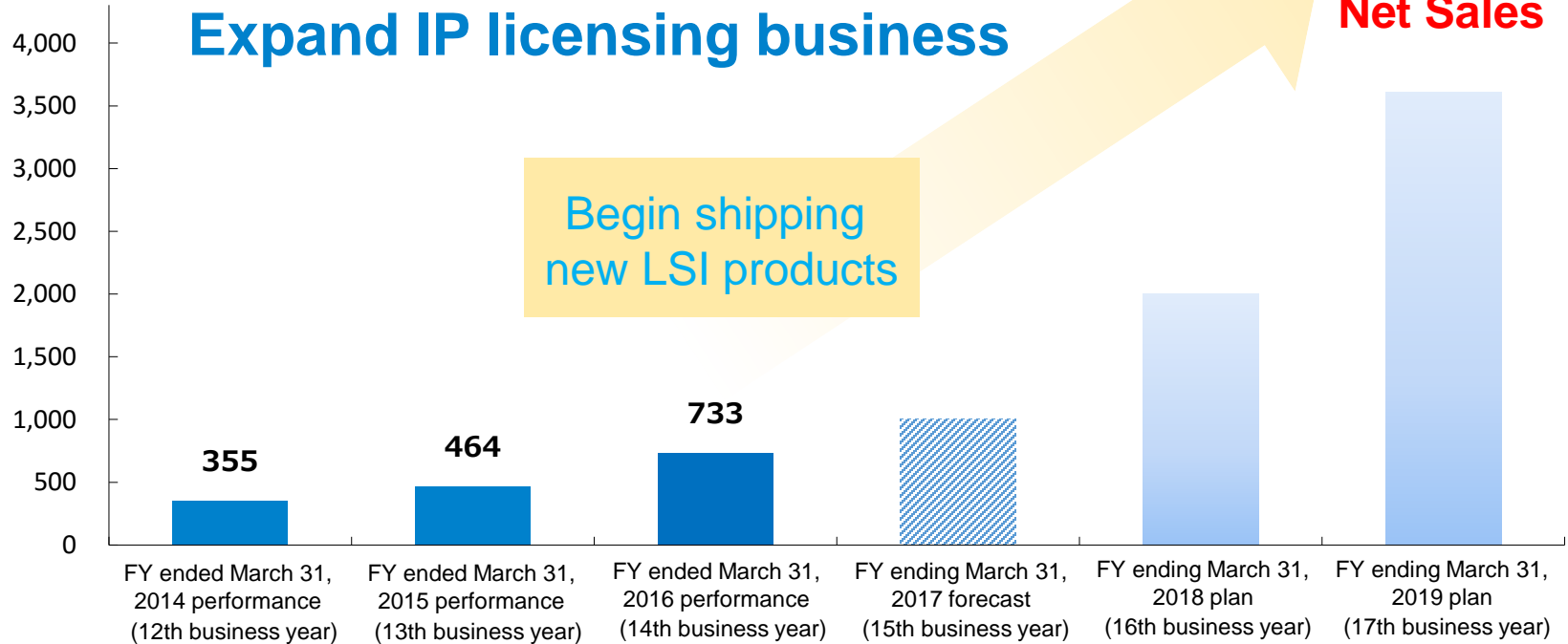
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Progress Report on Medium-Term Management Plan

**Build and expand business
by developing and increasing sales of SoC**
Launch professional services

(Unit: million yen)



Expand IP licensing business

Begin shipping
new LSI products

**10x
Net Sales**

Phase 1

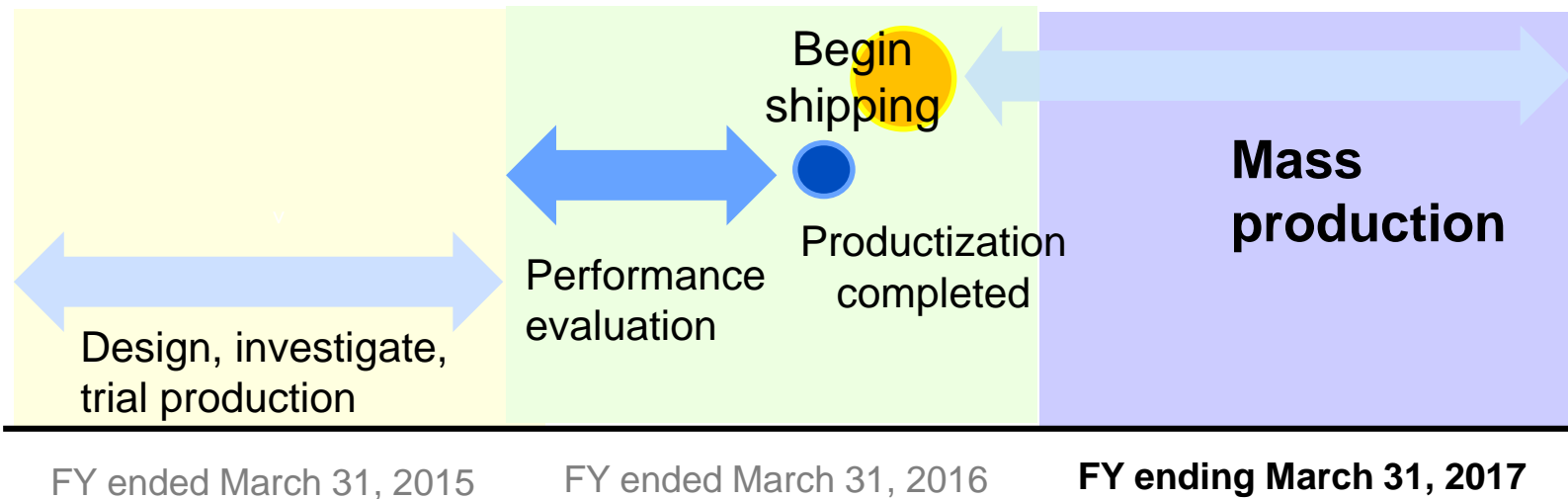
Phase 2



SoC/Module Business Field

Build and expand business by developing and increasing sales of SoC

Next-generation LSI development progressing smoothly.
Productization completed, shifting to mass production.

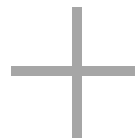


Added value

Possibilities for entering the next value-added, growth markets

Expand into growing IoT field

Products that implement sophisticated image processing in fields such as wearables, car applications, home, industry, and home electronics



Expand into artificial intelligence/deep learning* fields

Make use of technologies developed in phases 1 and 2 to enter artificial intelligence and deep learning markets

Establish foundations for SoC business in the winnable amusements market

Bring VF2 to market, begin mass production
Begin development of new products next fiscal year

Phase 1

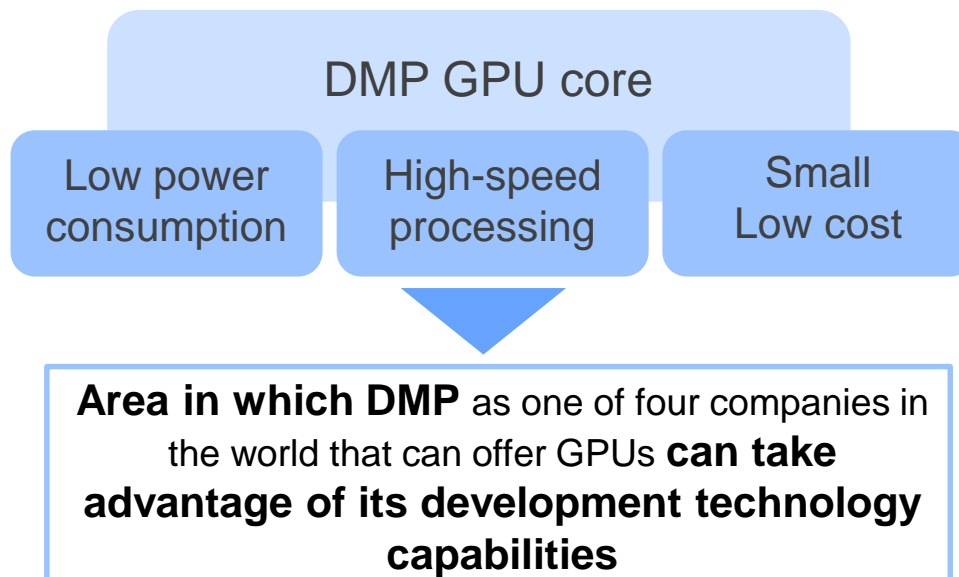
Phase 2

*A type of machine learning that makes use of multiple layers of neural networks and is applied to various types of data and pattern recognition such as image and voice recognition.

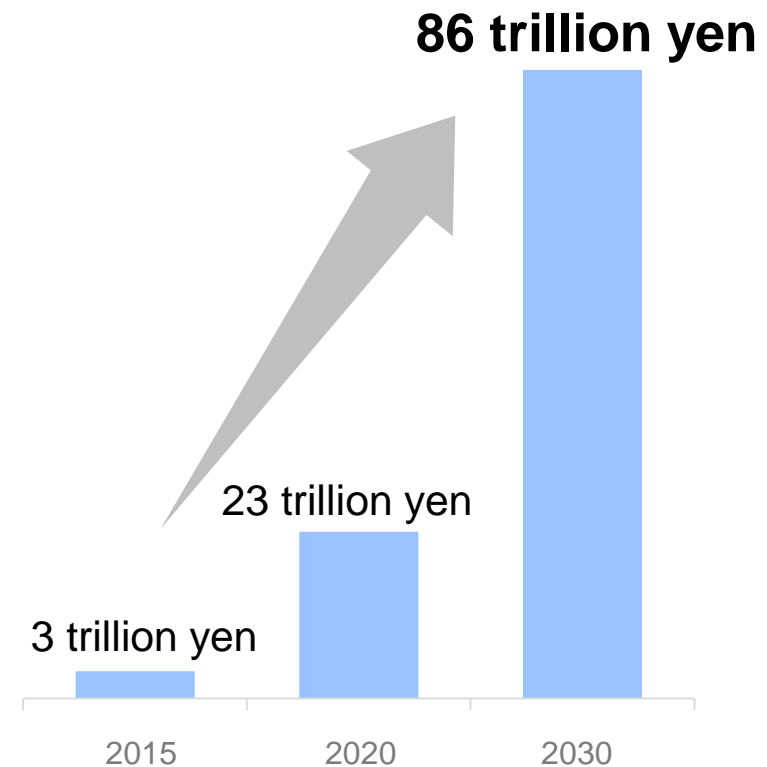
The size of the artificial intelligence market **will grow to ¥86 trillion** by 2030

Low power consumption inference processors required on the device side as GPU put to use for learning the large amounts of information and enormous amounts of imaging and other data on the cloud side

- Automatic driver assistance (ADAS)
- Security
- Manufacturing processes
- Medical
- Virtual reality



Size of market for artificial intelligence-related industries

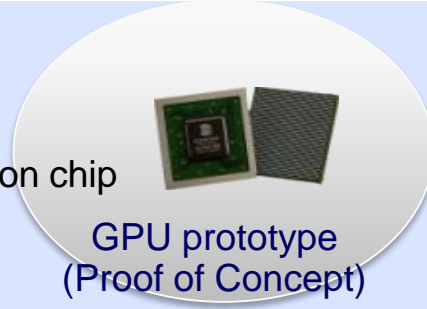


Source: 2015 Ernst & Young Institute Co., Ltd. "The 'Creation' and 'Destruction' that Artificial Intelligence Produces"

DMP's Capacity to Develop Technology: NEDO* Results

2003

"Task-Driven Industrial Technology
Development Costs Grant"
Development of semiconductor application chip



Commercializing research results

Turn IP and LSI into products

More than 80 million units of customer
products shipped (cumulative)



- PICA/SMAPH GPU IP
- NV7 GPU Chip

2012

"Strategic Energy-saving Technology Innovation Program"
Development of low-power consumption graphics processor



Begin mass production and
shipping

Adopted by major amusement
industry company

- VF series SoC

2015

"Green Device Social Pilot Implementation Promotion Program"
R&D on next-generation image recognition and image processing
technology platforms



Next-generation AI processor
development

Enter markets expected to grow
considerably

*New Energy and Industrial Technology Development Organization

Carry out advance R&D on **artificial intelligence** (next-generation image processor using deep-learning) platform with expected applications in industrial robots and self-driving cars

Results

- ✓ Development completed on **next-generation shader core** that will be image recognition core
- ✓ **Development of CNN core for deep learning application** completed with OpenCL implementation, benchmarking using FPGA
- ✓ Carry out prototyping of **graph-based algorithm implementation tool**
- ✓ Real-time performance of OS, etc., evaluated as **means for gauging system performance**, collection of fundamental data on future requirement definitions completed



**Nurtured as the next effective revenue base among
DMP's medium-term projects**

1

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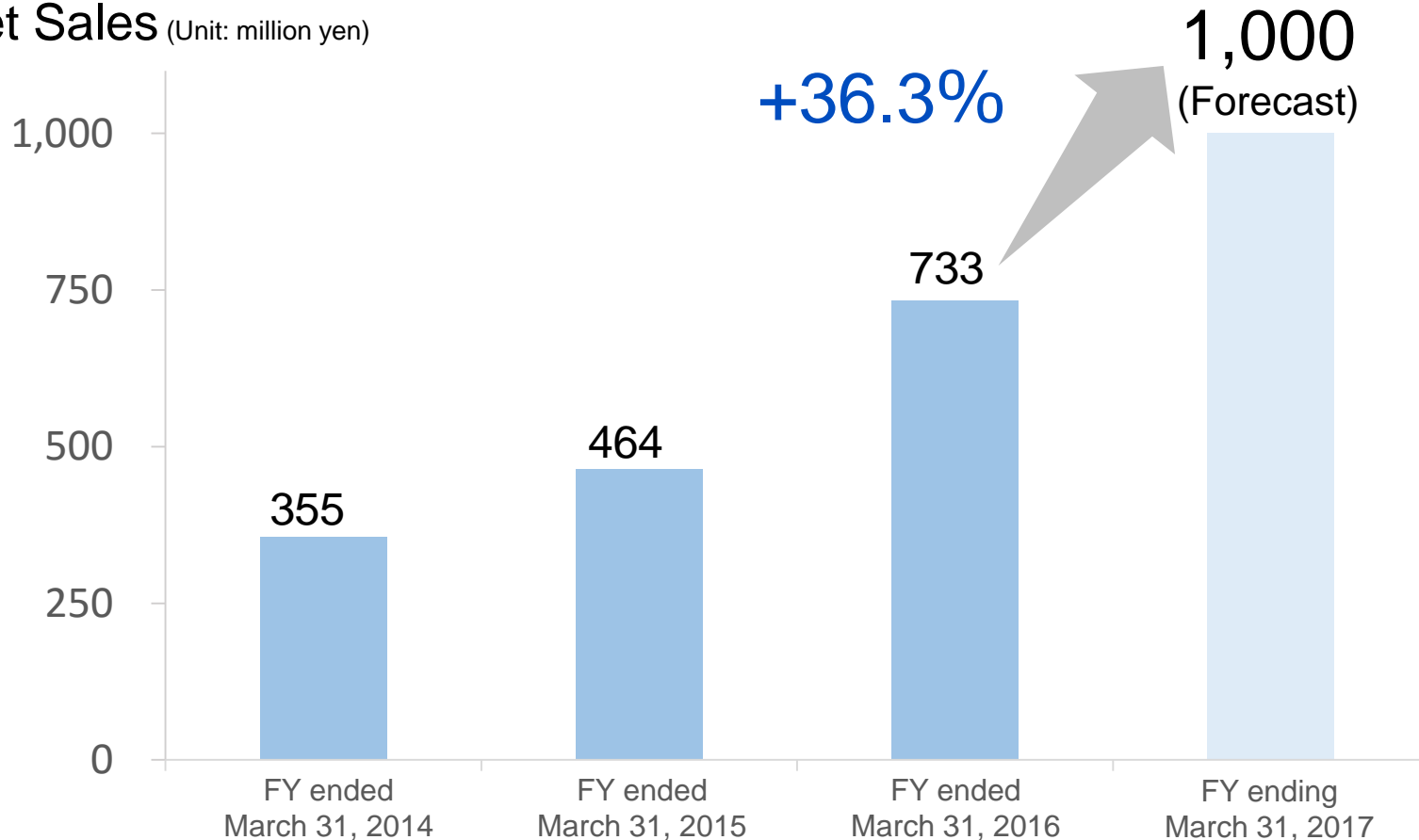
4

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Projected Performance

- ✓ Net sales **increased 36.3%** over same period previous fiscal year due to factors including the expansion of sales channels for VF2 high-performance graphics semiconductor and cultivation of new customers

Net Sales (Unit: million yen)



Fiscal Year Ending March 31, 2017 Projected Performance



(Unit: million yen)	FY ended March 31, 2016 (Actual)	FY ending March 31, 2017 (Forecast)	Compared to previous FY	
			(Amount)	(Increase-decrease rate)
Net sales	733	1,000	267	36.3%
Operating loss	-176	-161	15	—
Ordinary loss	-193	-161	32	—
Current net loss	-64	-161	-97	—

- ✓ Loss forecast owing to inclusion of costs related to development of VF2 successor



IP Core Licensing Field

Licensing of graphics IP core and development of IP aimed at deep learning.



SoC/Module Business Field

Work to increase earnings by cultivating new customers and expanding sales channels for VF2 high-performance graphics semiconductor that went on sale previous fiscal year. Devote energies to new product development.



Professional Services Field

Work to expand by devoting energies to getting image-processing semiconductor design commissions and to automobile-related, security, and medical-field service businesses.

Encourage strategic alliances

Regarding initiatives pursued with operational capital tie-up partner UKC Holdings Corporation, joint approaches toward customers are being pursued in the SoC/module business field. Discussions are also continuing on entry into the in-car device and IoT-related fields.



株式会社 UKCホールディングス

1

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3

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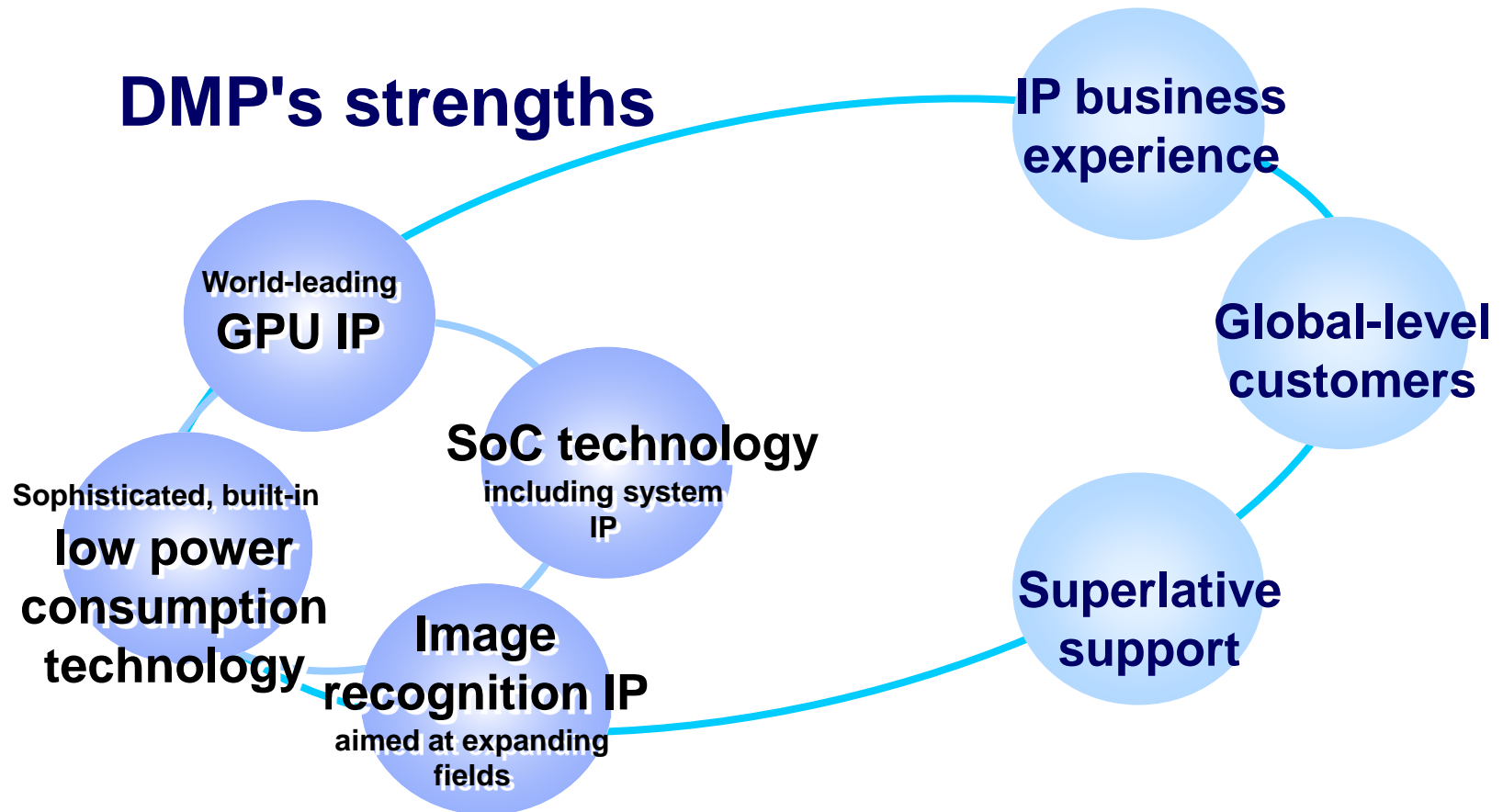
**Become a one-stop solutions provider
in the visual computing* field**

***Visual computing:**

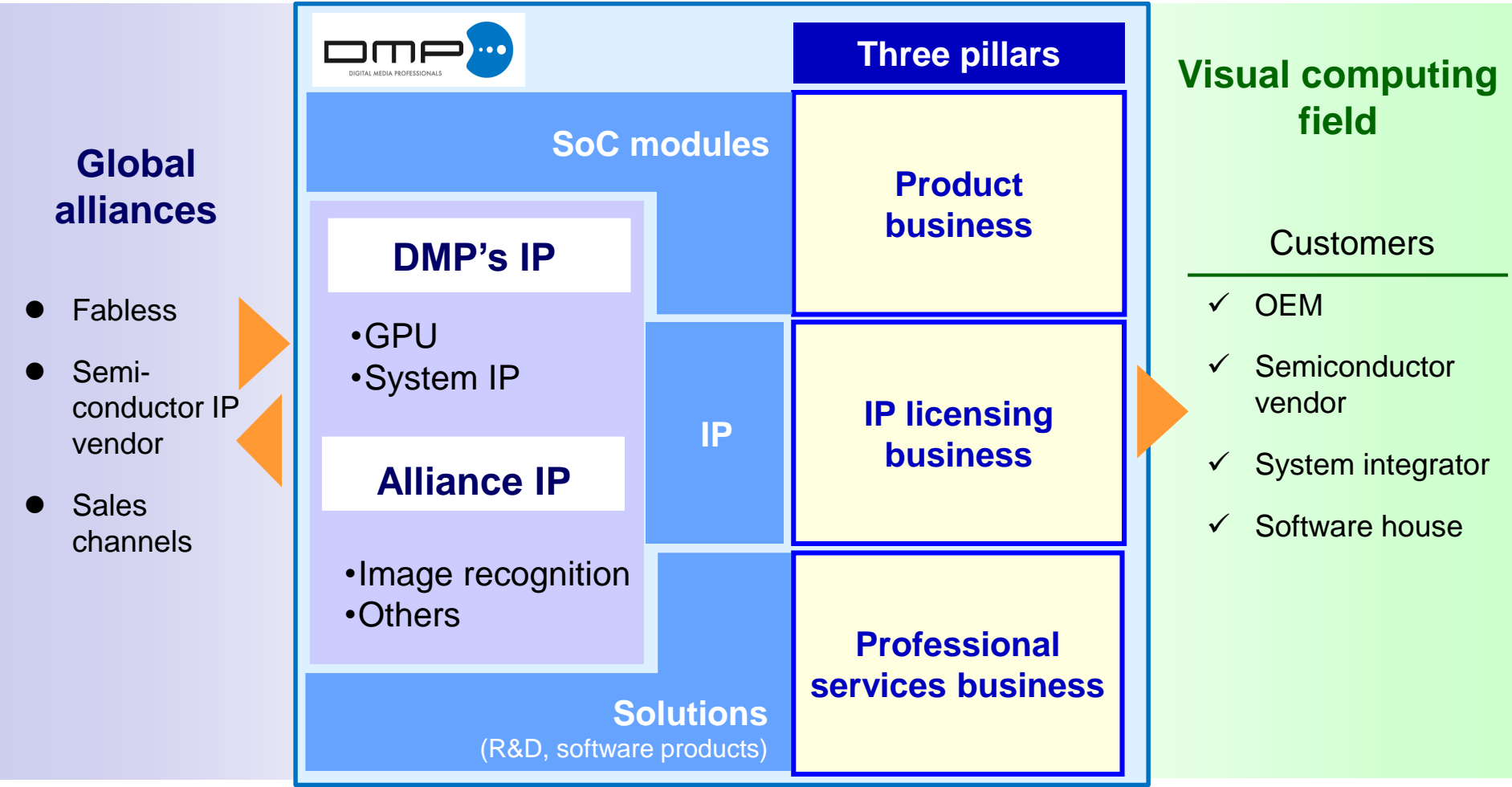
General term for computer processing via graphics and images

Our Company's Strengths

Core technologies and business experience in semiconductors that produce high added value for DMP



Offering unique products, licenses, and services with a distinctive IP portfolio



DMP's Strategy

Build foundation for growth with "three pillars" that can make the most of DMP's strengths

Product business

Provide competitive SoC and solutions that the make most of DMP IP

- Make the most of strengths to start business in "fields we can win"
- Expand size of business by providing SoC/modules

IP licensing business

Create new business in growth fields

- Focus on visual computing field
- Expand portfolio, strengthen proposal-making ability

Professional services business

Offer superior technological capabilities and make essential to developing new fields

- Build up high value-added services using GPU/vision technologies (in-house/external) as base
- Strengthen R&D

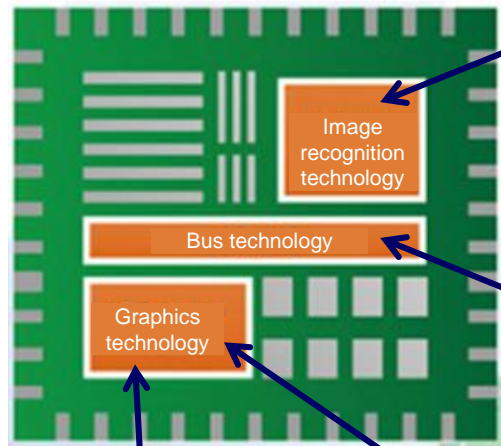
Systems and corporate

Strengthen management resources through alliances

(Partners for commercial distribution, semiconductor development and outside IP adoption)

Regarding the IP Business

Offer IP on industry's cutting edge with demonstrable low power consumption and high performance



Next-generation image recognition processor IP under development

- High-performance, low-power consumption processor for Computer Vision use
- Preparing algorithm library that includes ability to detect persons, face recognition, and gesture recognition

Loputo System Series

SoC Interconnect IP

- Supported bus protocols: AMBA AXI, OCP, ACE I/F support
- Support for low latency, QoS thanks to multilayered configuration

DDR Memory Controller IP

- DDR 1/2/3/4, LPDDR 1/2/3 support
- SoC interfaces: AXI, OCP/
- DDR PHY interface (DFI)

ant Series

UI Drawing Engine IP Core

- World's smallest core at 0.5 x 0.5 mm
- Low power consumption, high rendering performance, distortion correction

SMAPH Series

3D Graphics IP Core

- Latest Khronos standard: OpenGL ES 3.0 compatible
- DMP's unique advanced feature MAESTRO

2D Graphics IP Core

- Latest Khronos standard: OpenVG1.1 compatible
- High-speed rendering of such vector graphic content as fonts, maps, and icons with industry's smallest IP core size

Focus on visual computing market bound for growth



Connected home



Security



Image recognition



Games



Mobile vision



Robots/FA



User interfaces



Automobile driving assistance



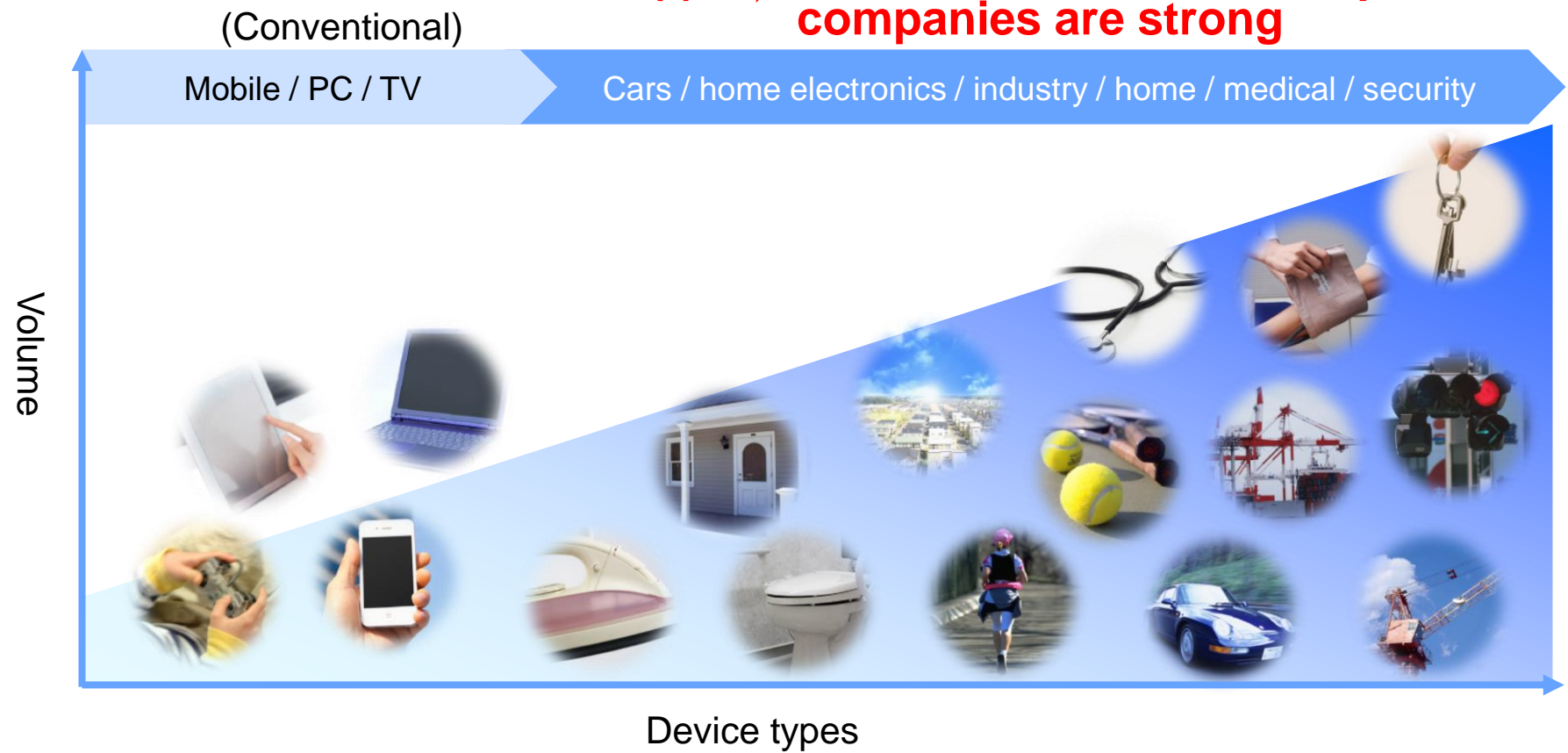
Wearable computing



Medical

Semiconductor Market Prospects

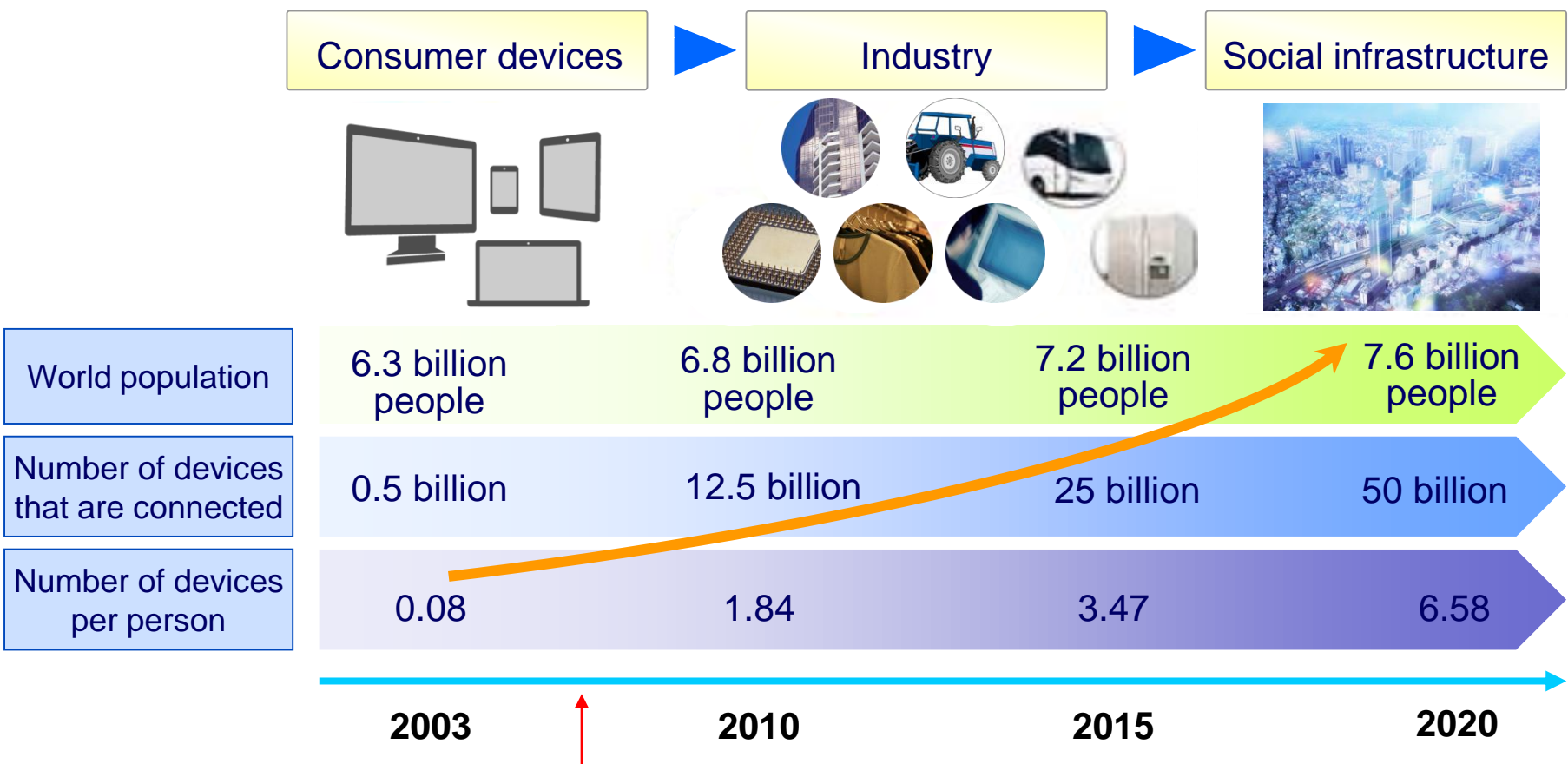
IoT(*) → Growth in fields where Japanese companies are strong



***IoT (Internet of Things):**
 The idea of being able to provide connectivity to a variety of devices and the like used in daily life—going beyond such information technology devices as PCs, smartphones, tablets, and game equipment—and then connect them to the internet as well as perform tasks such as automatic recognition, automatic control, remote monitoring, etc. by communicating with them interactively.

Semiconductor Market Prospects

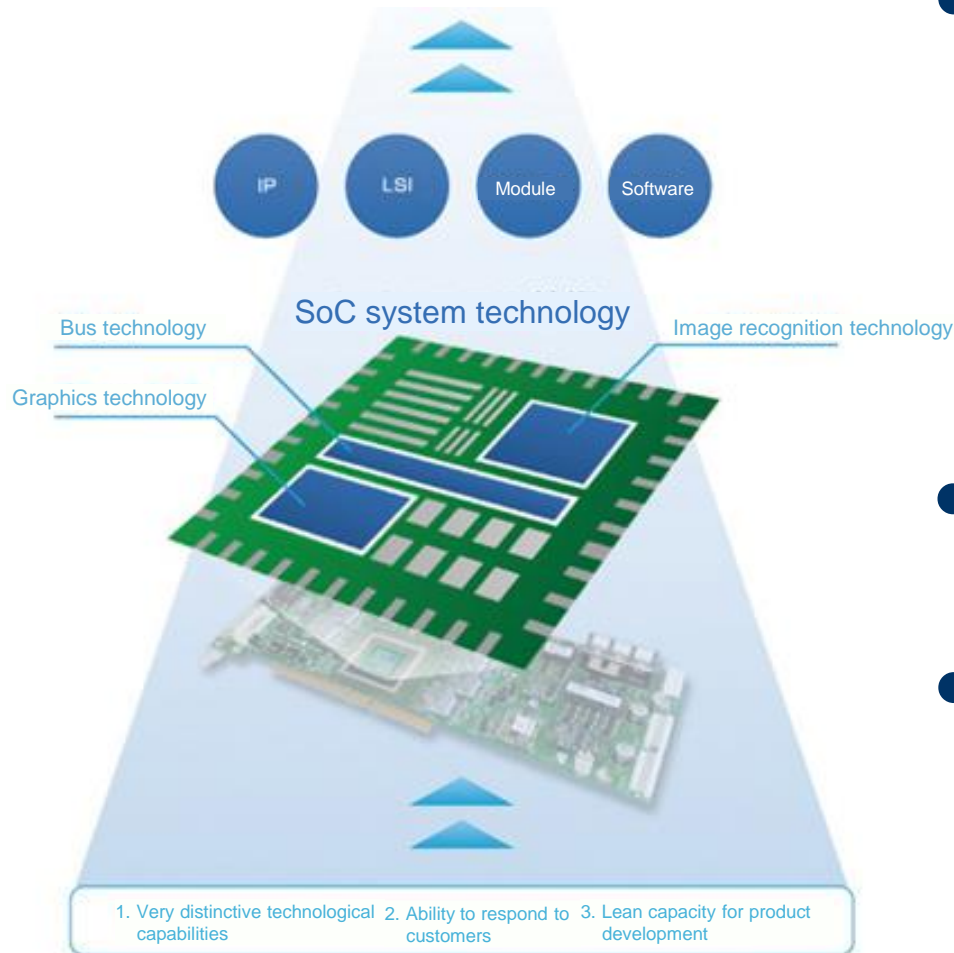
Arrival of IoT (Source: Cisco IBSG.2011)



The number of devices connected to the internet exceeds the world population

DMP's Strategic One-stop Solutions

Visual Computing Field



● High value-added IP core

- Advanced processor IP (GPGPU/image recognition) that enables heterogeneous processing environment
- System IP that achieves top-rank system performance in terms of low power consumption
- Collection of software tools optimized for drawing out IP performance

● SoC/modules differentiated by DMP IP

● Professional services

- Algorithms
- Benchmarking, optimization
- Application development
- Inspection

(Medium-Term Management Plan) Future prospects that make the most of our strengths and competitive advantages

Phase 1

- Development of SoC:
Develop products in fields where we can "win"
- Expand IP portfolio:
Enter image processing field
- Launch professional services

Phase 2

- Provide one-stop solutions
- Expand IP portfolio
- IoT-related service business

