DNP's Businesses

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DNP at a Glance

Profile

A comprehensive printing company that creates "Tomorrow's Basic" based on strengths resulting from the fusion of printing and information technologies

DNP is one of the largest comprehensive printing companies in the world. We provide a variety of products and services in a wide range of business fields to consumers and some 30,000 corporate clients in Japan and around the globe. DNP's main strengths are the printing and information technologies that it has cultivated since its founding in 1876. The Company has branched out from publishing and commercial printing into diverse fields including packaging, decorative materials, display components, and electronic devices. DNP has even grown to be the world's largest supplier of many products in these areas, and we continue to take on the challenge of expanding into new business fields, such as environment, energy, and life sciences.

From early in its development, DNP set about boosting the efficiency of the overall Group's management through measures including overall optimization, boosting profitability, and making effective use of management resources. We work hard to manage the company efficiently, for example by concentrating functions such as planning, sales, and research and development in our head office while positioning manufacturing divisions and specific technology development divisions within Group companies.

As of March 31, 2014, the DNP Group employed about 39,524 people. The Group has 46 sales bases and 58 production plants in Japan, 24 sales offices in 15 countries and a region and 13 overseas production plants in 10 countries and a region. Overseas sales contributed 14.9% of the Group's overall net sales in the fiscal year ended March 2014.

Business Portfolio

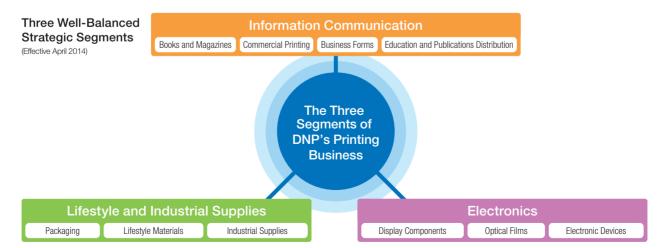
A well-balanced business portfolio from the standpoints of stability, profitability, growth potential and risk

DNP has two main businesses: Printing, which contributes about 96% of consolidated net sales, and Beverages, which generates about 4% of the Group's sales through Hokkaido Coca-Cola Bottling Co., Ltd. Armed with this business portfolio, DNP aims to expand its overall business and increase its corporate value by striving to solve problems for corporate clients and consumers.

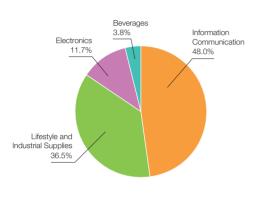
Printing consists of an assortment of businesses through which DNP applies and develops printing and information technologies in order to solve problems for consumers, and for client companies who operate in all types of business fields and in diverse formats. We divide our Printing business into three segments: (1) Information Communication, which includes the books and magazines and commercial printing businesses where DNP got its start, (2) Lifestyle and Industrial Supplies, which supplies a wide range of products including packaging products, decorative materials, optical films* and ink ribbons, and energy-related components, and (3) Electronics, which supplies display components and electronic devices, among other products. These three segments cooperate with each other and form a business portfolio that is well-balanced from the standpoints of stability, profitability, growth potential, and risk.

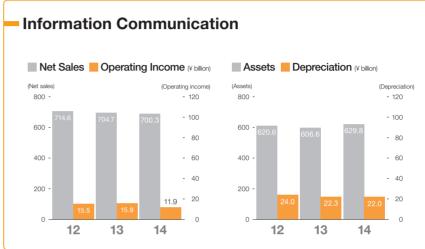
Our Beverages business takes advantage of the Coca-Cola brand strength while also developing original DNP products. We are working on bolstering our beverages business base, for example by promoting production and procurement in liaison with bottlers in other parts of Japan.

*Effective April 2014, Optical Films operations were transferred to the Electronics segment.



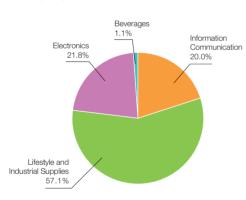
Net Sales
by Segment (Year ended March 31, 2014)





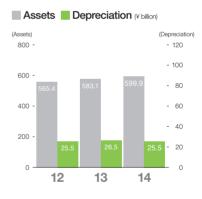
Operating Income

by Segment (Year ended March 31, 2014)

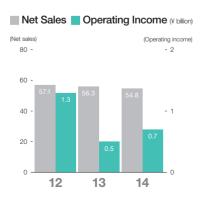


Lifestyle and Industrial Supplies





Beverages



Electronics



Our Products and Services

Information Communication

Books and Magazines

[1] Books and magazines [2] Dictionaries [3] E-books [4] Hybrid bookstore network "honto" loyalty point card (left);

"My Bookshelf" display (right)

Commercial Printing

[5] Catalogs, calendars [6] Augmented reality (AR)

[7] Orikomio! e-flyer service [8] Screen shot of "Receipi!" household budget application

[9] "Will Smart" touch-screen digital signage

[10] Personalized mail

Business Forms

[11] Smart cards [12] SIM card

[13] Lippmann hologram [14] IC tags

• Education and Publications Distribution

[15] Maruzen & Junkudo Bookstore in Shibuya (Tokyo)











[17]



Lifestyle and Industrial Supplies

Packaging

[16] Packaging for foods [17] Packaging for toiletries and pharmaceutical products [18] Universal design products [19] Packages made of IB film [20] PET plastic bottles and preform [21] Aseptic filling systems for PET plastic bottle

Lifestyle Materials

[22] Residential interior materials [23] Exterior materials for buildings [24] Automotive interior materials [25] Interior coverings for railway cars (Tohoku Shinkansen Hayabusa Reserved "Green" Car)

Industrial Supplies

[26] Bus line sheet used in photovoltaic cells

[27] Soft pack for lithium-ion battery

[28] Dye-sublimation thermal transfer printing media

[29] Digital photo printer [30] Barcode labels made using thermal

resin-type transfer printing media [31] Self print terminal "PrintRush"

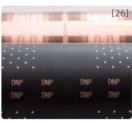












Electronics

Display Components

[32] Color filter for liquid crystal display

[33] Large-scale photomasks [34] Touch panel sensors

Optical Films*

[35] Optical films used for displays

[36] Projection screen [37] Transparent screen

[38] Moth-eye® anti-reflection film (left side of the glass)

• Electronic Devices

[39] Semiconductor photomask

[40] Master template for nano-imprinting

[41] Hard disk drive suspension

[42] Lead frame for compact semiconductor package

[43] Metal substrate for LED light

[44] Recorder for security camera

[45] NFC (near field communication) module

[46] Electronic paper display system

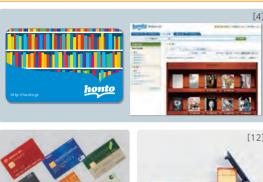
[47] MEMS (micro electro mechanical systems) products







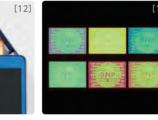












































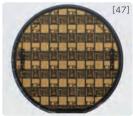




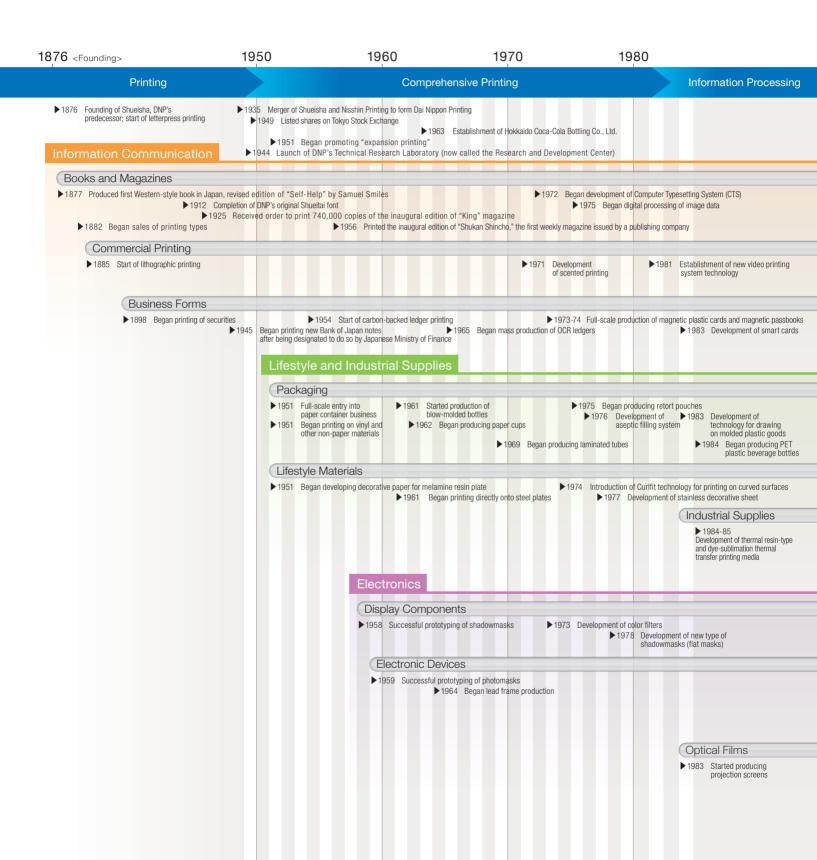








Evolution of DNP's Businesses



	— Growth Strategies —
1985 Development of world's first electronic dictionary on CD-ROM ▶ 1992 Development of Shueitai True Type font ▶ 1997 Start of online publishing business ▶ 2008-1 0 Alliances with Maruzen Co., Ltd. Junkudo Co., Ltd. and Bunkyodo Group Holdings Co., Ltd., etc. ▶ 2010 Startup of "honto" e-book sales service	 Hybrid publishing solutions Hybrid bookstore network "honto"
▶ 1989 Construction of global network system	Businesses that make use of big data Cross media communications business Promotion of BPO business Expansion of security solutions
▶ 1993 Production of contactless smart cards ▶ 2004 Began Card Data Management Service (CDMS) ▶ 1999 Launch of IC tag project ▶ 2005 Establishment of "SSFC" office security consortium	
▶ 1992 Development of preform method for PET plastic bottles ▶ 2007 Development of packaging for Japanese-style space food ▶ 1998 Development of transparent "innovative barrier film (IB Film)"	Expand eco-friendly products Develop new products using
▶1996 Began producing sheet with EB coating ▶1999 Commercialization of "soft packs" for lithium-ion batteries	materials with more advanced functionality Expand safe, reliable packaging, a variety of living space solutions, and industrial materials businesses worldwide
▶2003 Development of photovoltaic module components ▶2005 Began development of "PrintRush" self-service printing system ▶2005 Development of fuel cell components ▶2007 Development of printed organic photovoltaic cells	Dusiliesses Worldwide
Development of LCD color filter production technology ▶ 2001 Development of flexible organic EL displays ▶ 2003 Development of full-color organic EL panels ▶ 2006 Mass production of color filters using inkjet method	Display products: shift emphasis to growth areas and expand new product lineup
▶1995 Launched multilayer wiring formation technology ▶1999 Entered semiconductor package substrate field ▶2001 Began MEMS (micro electro mechanical systems) processing under contract	 Electronic devices: develop cutting-edge technologies and expand overseas business
▶2002 Completed production line build-up boards	 Optical films: used basic technologies to expand into new markets
▶1996 Establishment of anti-glare film technology for LCDs ▶2004 Development of "JETBLACK" front projection screens New Businesses	Effective April 2014, Optical Films was transferred into the Electronics segment.
Life Science (Regenerative Medicine, etc.) > 2004 Successful formation of capillary patterns > 2008 Development of cell pattern culture substrates > 2008 Development of cell sheet culture film	Promote research and development aimed at business creation

2010

P&I Solutions

▶2001 Announcement of DNP Group Vision for the 21st Century (125th anniversary of DNP's founding)

2014

"Today's Innovation is Tomorrow's Basic"

2000

Information Communication

▶1987 Began shifting focus from "expansion printing" to "comprehensive information processing"

1990

Major Events of this Fiscal Year

2013

Apr.

O Opening of Osaka cafe aimed at increasing communication with consumers

DNP teamed up with Pronto Corporation and Knowledge Capital, a facility in Osaka that supports collaboration between corporations, universities, research institutes and other entities, to open "the Lab. CAFE Lab." The new "communication cafe" is located within Knowledge Capital. Its shelves hold books that were carefully selected by the cafe staff, and customers are free to read e-books using the tablet PCs found on each table. DNP will make use of the cafe in future business development, for example by organizing workshops with consumer participation.



The Lab. CAFE Lab.

May

O Startup of packaging plant in Vietnam (details on P 16)

Expansion of production equipment at Pittsburgh plant, which makes thermal resin-type transfer printing media for printing barcodes (details on P 17)

O Tie-up with Will Smart on digital signage business

DNP and Will Smart Co., Ltd., a subsidiary of Zenrin DataCom Co., Ltd., formed a capital and operational alliance primarily in order to jointly promote a content and advertising transmission business that will make use of digital signage. The partnership will introduce Will Smart touch-screen digital signage in public places such as train stations, airports, and shopping malls in order to provide maps and tourist information in multiple languages, mainly for foreign tourists.



"Will Smart" touch-screen digital signage

Jun.

O DNP and Quanta Computer jointly develop color management LSI

DNP and Quanta Computer Inc., a major contract manufacturer of notebook computers and tablet terminals, began working together to develop a large-scale integrated circuit (LSI) that can correct uneven color tones for an entire display. DNP is handling development and manufacturing of the color management LSIs while Quanta Computer is handling development, manufacturing, and sales of the terminals that make use of them. The LSI uses contrast correction technology developed by Apical Ltd. (U.K.) combined with DNP's unique image-based noise reduction technology to express realistic and aesthetically pleasing images



Before contrast correction (left)



After contrast correction (right)

Jul.

Full-scale startup of operations at Utsunomiya factory making functional materials and active pharmaceutical ingredients

DNP Fine Chemicals Utsunomiya Co., Ltd. (formerly called DNP Fine Chemicals Fukushima Co., Ltd.) began full-scale operation of its Utsunomiya plant. The new plant capitalizes on DNP's excellent organic synthesis technology. Besides manufacturing active pharmaceutical ingredients and intermediates, it will expand into the new business of producing functional materials used in electronic materials, such as ultraviolet curable resins and color resists used in displays.



Utsunomiya plant

Sept.

O Redemption of DNP's first series of unsecured corporate bonds

DNP redeemed its first series of unsecured corporate bonds totaling 50 billion yen. The bonds were issued on September 25, 2003, mainly to fund capital investments. As a result, the company's balance of outstanding corporate bonds amounts to 100 billion yen, consisting of 50 billion yen from the second series of unsecured corporate bonds (issued July 30, 2009, scheduled for redemption on July 30, 2019) and 50 billion yen from its third series of unsecured corporate bonds (issued March 3, 2011 and scheduled for redemption on December 18, 2020.)

Dec.

- Opening of Malaysian plant, producing dye-sublimation thermal transfer materials used for printing photographs (details on P 17)
- Opening of DNP Kashiwa Data Center, equipped with advanced information security measures (details on P 14)

2014

Mar.

 Business and capital tie-up with MK Smart Joint Stock Company, Vietnam's leading manufacturer of smart cards (details on P 17)

Apr.

O Reorganization of semiconductor photomask business in Taiwan

DNP subsidiary DNP Photomask Technology Taiwan Co., Ltd., a manufacturer of logic photomasks, was merged into Photronics Semiconductor Mask Corporation, whose strength is in the manufacture of memory photomasks. The resulting new company, Photronics DNP Mask Corporation, is a DNP equity-method affiliate in which DNP holds 49.99% of common shares. The joint venture will enhance its sales systems and manufacturing environment, and establish stable sales routes to serve the highly changeable world semiconductor market, with a focus on Southeast Asia.



A photomask used for manufacturing semiconductors

Optical Films business unit integrated into Electronics segment (details on P 47)

Jul.

O Reorganization of nationwide sales and manufacturing systems belonging to Information Communication and Packaging operations

In line with changes in consumer lifestyles and corporate clients' needs, DNP aims to provide a uniform level of service throughout Japan regardless of time or place. Toward that end, as of July 1 we reorganized our Information Communication Operations and Packaging Operations nationwide.

We split each of the regional DNP Group companies that handle production and sales for these business segments (DNP Hokkaido Co., Ltd., DNP Tohoku Co., Ltd., DNP Chubu Co., Ltd., and DNP Nishi Nippon Co., Ltd.) and integrated their sales divisions into our Group headquarters, Dai Nippon Printing Co., Ltd. At the same time, we integrated the commercial printing-related manufacturing divisions of DNP Group companies into DNP Graphica Co., Ltd., and manufacturing divisions related to business forms into DNP Data Techno Co., Ltd. We will pursue overall optimization under this new system of integrated nationwide sales and nationwide production. Our aims are to improve customer service, enhance solution proposals, and expand income and capital efficiency by boosting production efficiency.