

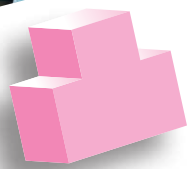
CONVEX

– International –



Special
Feature

Converting Change into Opportunity
How Toppan is Serving Asia's Packaging Needs





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Notice from the Public Relations Division

CONVEX International is an internal magazine for the Toppan Group. The title, CONVEX, is based on the meaning of the Chinese character “凸”, which is pronounced *totsu* in Japanese and is the first character in the word *toppan*. In the same way that a convex lens focuses light at a single point, the name of the magazine expresses Toppan bringing together its “vibrant knowledge and technology.”

Cover Photo

The photo on the cover is a collage of Toppan Group employees who contributed to the special feature. Thank you to everyone who took part.



Special
Feature

Converting Change into Opportunity

How Toppan is Serving
Asia's Packaging Needs

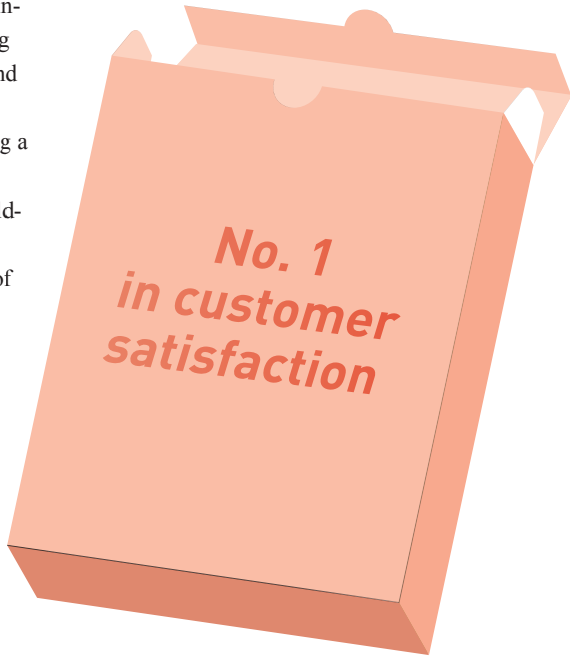
In Japan and Asia, Toppan works as a converter, manufacturing and filling flexible and paper packages for food, beverages, toiletries, and other consumer goods. Changing lifestyles hold out the possibility of rapid growth in Asia, where Toppan has two factories in Thailand, one in China, and two in Indonesia.

In this feature, we present Toppan's packaging operations in the ASEAN region, focusing on its packaging factories in Indonesia and Thailand.

Worldwide Expansion of the Packaging Business

Against a backdrop of increasing global needs for sustainable packaging, Toppan's packaging business is growing in importance. With a focus on Japan, North America and Indonesia, Toppan is leveraging sustainable packaging using barrier films to expand the business by establishing a network of local production for local consumption.

Based on these activities, Toppan is driving a worldwide packaging business and aiming for the overseas Living & Industry business to account for at least 15% of total operating profit in fiscal 2025.



Diverse Local Demand in Asia

Plants in Indonesia and Thailand, launched in 1973 and 1990, respectively, have been instrumental in providing products catering to diverse local demand in Asia, such as packaging for food, electronics, and medical goods.

In this special feature we look at two companies playing leading roles. Siam Toppan Packaging designs, manufactures, and sells paper packaging that delivers outstanding functionality and design. Indonesia Toppan Printing, meanwhile, does the same for products employing barrier film for medical and pharmaceutical goods, food, electronic components, and more.



Siam Toppan Packaging Co., Ltd.

<http://www.siamtoppan.co.th/>



Siam Toppan Packaging Co., Ltd. is Thailand’s leading offset-printed packaging manufacturer. The company is a manufacturer of offset-printed folding cartons and corrugated boxes for packaging high-end products such as electrical appliances, sweets, toys, cosmetics, food, beverages, and consumer products. It is a joint Japanese-Thai company, whose shareholders are Toppan and Siam Cement Group.



Siam Toppan Packaging Co., Ltd.
Location: Amphur Muang, Samutprakarn, Thailand
Business: Folding cartons
Number of Employees: 550



Satoshi Kawada
Managing Director

► Tell us about the company

Being a company with a long history of more than 30 years, Siam Toppan still makes the utmost effort to provide comprehensive solutions for high-quality paper packaging to customers throughout the world to achieve our goal of being No. 1 in customer satisfaction.

► Favorite food: Mango sticky rice.

It was shocking at first to eat mango and rice together, but I’m addicted to it now.



Highlights of Samutprakarn Province

Crocodile farm

Muang Boran Museum

Banpoo Recreation Center

Snakeskin gourami fish

Sweet mango



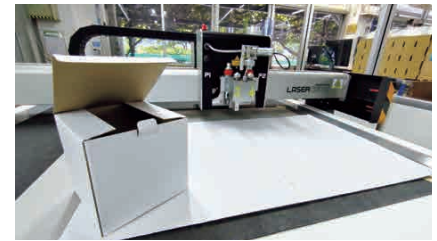
Excellent Package, Best Service to the World

Siam Toppan Packaging fulfills the needs of customers in paper packaging from design to the production process and quality control. It has received certification for compliance with international standards on quality management and quality assurance. Customers are therefore satisfied with its excellent packages and service.



Design and Prepress

Siam Toppan Packaging's commitment to customers is to provide packaging that enriches people's lives. Therefore, the company always attaches a lot of importance to providing a design service for customers by adopting the principles of Universal Design (UD). It also offers a sample box making service in tangible object and 3D formats.



WorldStar Global Packaging Awards

SALZ Mouthwash Premium Set Thai Ayurveda is a fusion of graphic design by LION CORPORATION (THAILAND) LTD. and structural design by Siam Toppan. The shape of the package was inspired by Thai lacquer work and created as a cabinet of traditional herbal remedies books with a contemporary Thai pattern, showing the value of Thai cultural heritage handed down to the next generation.



LION: SALZ Mouthwash Premium Set Thai Ayurveda



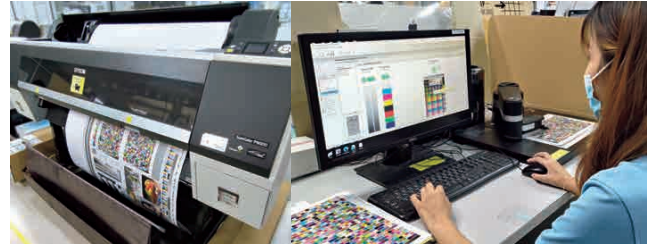
**Akanit
Rueangtham**

► **Strengths:** I always love to learn new things. I like to develop my skills. I don't block myself from listening to other people's opinions and use them to develop my potential as a product designer for making much more creative design.

► **Favorite food:** Red curry with beef (Beef Panaeng Curry). I never get bored with my mom's red curry with beef.



Technology



Siam Toppan Packaging focuses on its color management system, making of proof and sample boxes, option making, and sample cutting. In addition, it provides digital proofing to control the color quality of the sample by adopting a certified G7 system.

Special Printing Techniques

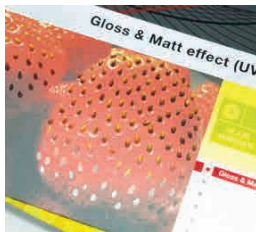
Siam Toppan Packaging always tries to find ways to differentiate its customers' products by making them much more attractive, such as with emboss look 3D, drip-off, gloss-matt, or hot stamping options. It also offers eco-friendly materials, security printing, and AR technology.



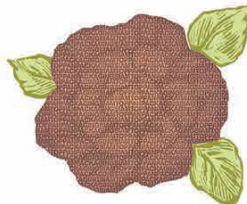
Emboss look 3D



AR technology



Gloss-matt



Security printing



Drip-off

Hot stamping

Manufacturing

Siam Toppan Packaging provides consistently high-quality products and service for its customers. Therefore, every single process of the production line and every work procedure is ensured and guaranteed by certification covering ISO 9000, ISO 14001, ISO 45001, GHP, and BRCGS.



Anuwat Wongprajan

► **Strengths:** I used to be a trainee at Sagami-hara in Japan, where I had many great experiences. I gained not only analytical thinking and problem-solving skills there, but also Japanese language skills that I use for communicating with Japanese customers, helping my work run smoothly.

► **Favorite food:** Thai spicy mixed vegetable soup (Kaeng Liang) cooked by my wife.



PT. Indonesia Toppan Printing

<http://www.toppan.co.id/>



PT. Indonesia Toppan Printing is a flexible packaging company established in 1973. The company has been providing wide-ranging types of packaging for the food, beverage, household goods, and healthcare industries since its inception.

Between Indonesia Toppan Printing and P.T. Plasindo Lestari (acquired in 2017), Toppan is currently a top player in Indonesia's domestic flexible packaging market and will continue contributing to the further enrichment of Indonesians' lives.



PT. Indonesia Toppan Printing
Location: Bekasi, West Java, Indonesia
Business: Packaging
Number of Employees: 507



Toru Kobayashi
Managing Director

► **Tell us about the company**

Our factory is the Toppan Group's only packaging manufacturing site in the southern hemisphere. We are promoting our sustainable transformation (SX) strategy in the growing Indonesian market as part of our efforts toward achieving a sustainable society, a global issue. Let's work together to become the world's number one converter!

► **Favorite food:**

Grilled eel, tonkatsu, Soto Ayam (Indonesian)



Highlights of West Java

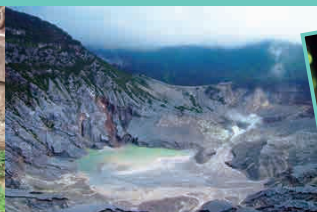
Kebun Raya Bogor



Taman Safari Indonesia Bogor



Gunung Tangkuban Perahu



Saung Angklung Udjo



Pantai Karang Tawulan



Solving Customer Issues through Packaging Solutions

Indonesia Toppan Printing offers packaging solutions for the growing Indonesian market as Toppan's only Halal-certified manufacturing site. Its products have been adopted by various industries, including the daily goods, food product, electronic component, and healthcare sectors.



Stand-up Pouch



This stand-up pouch can be adapted for an array of sizes and uses. As an easy-to-pour form of packaging, it has been adopted in Indonesia for toiletries and cooking oil.

Gusset and Three-side Seal Bag

This bag is used in Indonesia for snacks and agricultural products. Available in a variety of sizes and volumes, it is seen at food stalls in the form of sachets and is familiar to Indonesian consumers. Alongside food products, it has also been adopted as a component for electronic parts.



While Indonesia is a growing market, it is still in its infancy in terms of addressing environmental issues and sustainability. As a flexible packaging converter boasting Indonesia's top market share, it will expand sales to meet the global need for sustainable packaging and contribute to sustainable business development.



Samuel Joshua

► **Strengths:** I can make and maintain good relationships with customers to secure sustainable orders. I can also get information that will help to devise strategy.

► **Favorite food:** My favorite food is Bakmi Ayam, a.k.a. Indonesian-style chicken noodles.



Cahyo Edi Nugroho

► **Strengths:** As a salesperson, I'm good at managing and organizing all the customer's details and inquiries. I'm also good at communicating with people and able to write and speak English fluently.

► **Favorite food:** I really like Soto Betawi. This is an authentic food from Jakarta.



Manufacturing

Alongside regular flexible packaging manufacturing equipment like printing presses, laminators, slitting machines and bag-making machines, this factory also has inflation-type film-forming machines, a special type of manufacturing equipment with which Indonesia Toppan is able to produce polyethylene (PE) and nylon (NY) films in-house.

In recent years, Indonesia Toppan has also been working vigorously to develop and expand sales of sustainable packaging to meet global needs by using solvent-less laminators and mono-material compositions for products.



Film-forming machine



Dry laminator



Mohammad Soenawar

► **Strengths:** I think the responsibility to supervise and provide the right direction is very important for a smooth production process in each section that progresses as planned, and I try to be disciplined in terms of work in the hope of being an example for other employees.

► **Favorite food:** My favorite food is lamb satay with chili sauce and sweet soy sauce.



Contact us if you want more information about anything in this special feature > Globalpr@toppan.co.jp

Toppan Showrooms

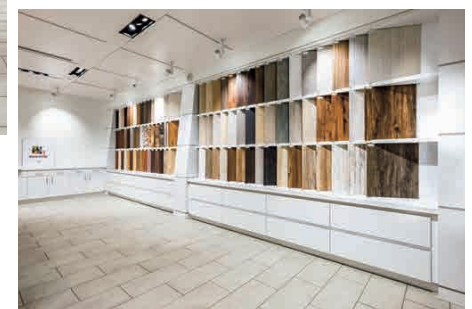
Toppan is a global group of companies with 124 locations worldwide. Let's have a look at the diverse products and services that Toppan provides throughout the world through the lens of its showrooms. In this feature we present the Toppan Group's showrooms in four parts.

Part 2 U.S.A.

Toppan Interamerica Inc.

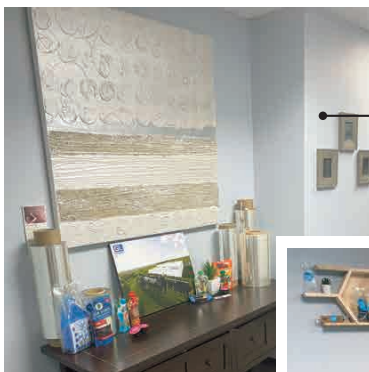
01 The FOREST Showroom in Atlanta, Georgia

Toppan Interamerica Inc. designs, prints, and supplies high-quality décor papers and films for commercial and residential markets. The FOREST Showroom not only displays the various décor papers and films we offer, but also features Toppan's FORTINA® architectural system and HD-ONE ceiling panels. We hope you join us in the FOREST Showroom!



Toppan USA, Inc.

Product Displays 02 in Chicago, Illinois



Toppan USA has become the premier transparent barrier film supplier in North and South America and Europe. Since its introduction, the demand for GL Film has continued to grow.

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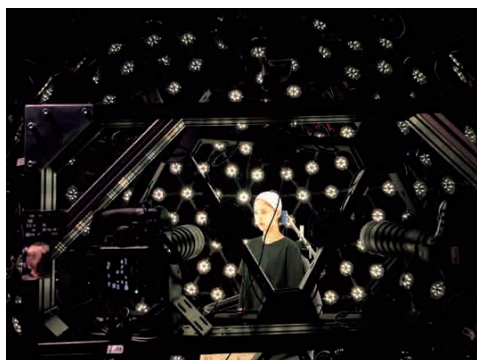
Transparent AR Display

https://www.toppan.co.jp/news/2022/01/newsrelease220131_2.html

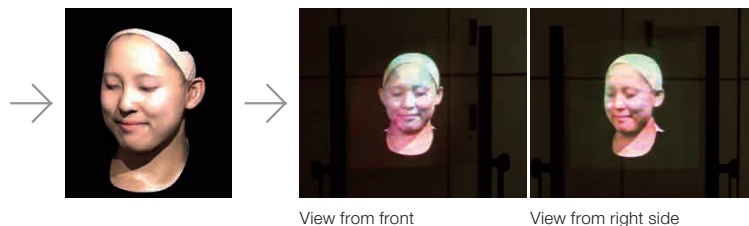
Photo-realistic 3D Images on Transparent AR Display



The National Institute of Information and Communications Technology (NICT) and Toppan have succeeded in displaying images consisting of highly accurate facial measurement data in 3D on a transparent augmented reality (AR) display that enables many people to simultaneously experience photo-realistic 3D displays without 3D glasses.



3D computer graphic data is generated from the results of high-definition facial scanning using a Light Stage.



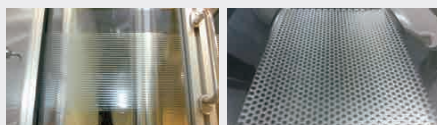
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A Self-organizing Structure

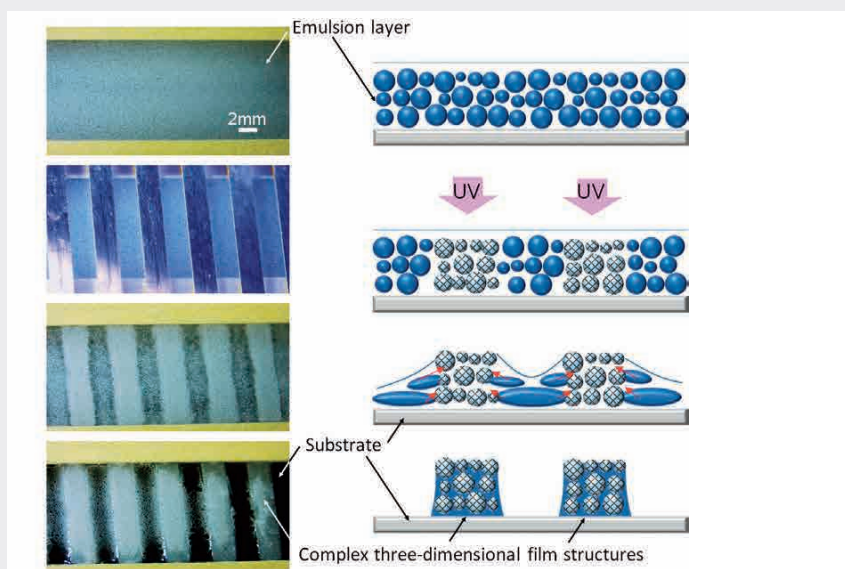
<https://www.toppan.com/en/news/2022/03/newsrelease220316.html>

Research Paper on Novel Patterning Method Published in Springer Nature's Scientific Reports

Toppan has proposed a novel patterning method utilizing the destruction of emulsion structure. An uneven pattern can be formed by direct UV exposure of a liquid film and the subsequent drying process without requiring a development process. The development of spontaneous structures with a roll-to-roll process capability is a challenging task.



Example of continuous formation of a stripe pattern in a roll-to-roll process (left) and intermittent formation of a circular dot pattern (right)



Toppan Named as Supplier Engagement Leader by CDP



Toppan has been recognized as a Supplier Engagement Leader in the 2021 Supplier Engagement Rating (SER¹) conducted by CDP, an international non-profit organization focused on environmental disclosure. Toppan was recognized in particular for proactive efforts to reduce Scope 3 greenhouse gas (GHG) emissions across its

global group of companies through the provision of low-carbon-emission products and services.

1: CDP's Supplier Engagement Rating assesses how effectively companies are working with suppliers to address climate change issues.

JAPAN & INDIA

Toppan Increases Stake to Make Max Speciality Films a Consolidated Subsidiary

Max Speciality Films Limited (MSFL) became a consolidated subsidiary of Toppan on February 1. In addition to enabling Toppan to make a full-scale entry into the BOPP film business in India, the investment will support efforts to expand the company's network for supplying mono-materials to diverse customers in global markets, contributing to the creation of a sustainable society.



TAIWAN

Toppan iDGate Achieves FIDO's Core Certifications for its Password-less Authentication Solutions



TOPPAN iDGate, a Taiwan-based advanced payment authentication solutions provider, has obtained three certifications, UAF, U2F and FIDO2, from FIDO Alliance, an open industry association with a mission to standardize authentications to help reduce the world's over-reliance on passwords.

Toppan Carves Out Semiconductor Photomask Business to Launch New Company



Toppan carved out its semiconductor photomask business to launch Toppan Photomask Co., Ltd. on April 1. As the only photomask manufacturer with manufacturing locations in the U.S.,



Europe, Japan and Asia coupled with participation from Integral Corporation, the new company will leverage market financing to continue supporting the semiconductor industry as the world's merchant photomask market leader.

JAPAN

**Printing Museum Cooperates with Gutenberg Museum
Toward the Registration of Letterpress Culture as UNESCO Intangible Cultural Heritage**

In September 2020, the Gutenberg Museum (Mainz, Germany) announced "Mainz Impulse"¹ as a global initiative with the aim of preserving Gutenberg's technology and letterpress culture for future generations.

Currently, efforts to collect signatures have begun all over the world with the aim of registering the letterpress techniques as UNESCO Intangible Cultural

Heritage. Toppan's Printing Museum (Tokyo) is also playing a role in Japan by starting a drive to collect signatures and holding related events from April 2022.

See more: <https://www.mainz.de/microsite/gutenberg-museum-en/global/Mainz-Impulse.php>

1: Mainz Impulse: <https://www.mainz.de/microsite/gutenberg-museum-en/global/Mainz-Impulse.php>



SINGAPORE

Our Colleagues Completed an Ekiden Race!



Toppan Ecquaria employees who completed the race

Last December, the scsm Toyota Ekiden (Standard Chartered Singapore Marathon 2021) was held in Singapore. The Ekiden was the largest event since the Covid-19

pandemic broke out, with 516 participants (including 304 finishers), and was a Singapore government-approved sporting event with infection control measures in

place. Four employees of Toppan Ecquaria Pte. Ltd. (Singapore) participated, completing the 5 km Marina Bay Run.

TOPPAN World SEEDS

In this section, we introduce you to employees working at Toppan Group companies around the world.

File 1: Pennsylvania, U.S.A.

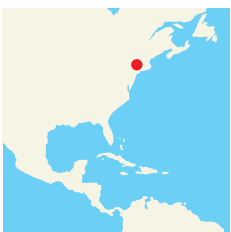
Total area: 119,283 km²
Population: Over 13 million (United States census of 2020)



Toppan Interamerica Inc. Pennsylvania Plant

The Pennsylvania Plant prints for the furniture, flooring, manufactured homes and recreational vehicle markets. We have two proofing presses operated by dedicated color experts and three high-realism rotogravure printing presses that print on paper and polyvinyl. Our printed wood grain designs are incredibly realistic and have a haptic texture which feels like real wood. Our experienced employees have helped set the standard for the printing industry today.

Toppan Interamerica Inc. Pennsylvania Plant
Thousand Oaks Corporate Center,
Thousand Oaks Blvd., Morgantown,
PA 19543-0470, U.S.A.
Business: Décor materials



Pennsylvania is a state spanning the Mid-Atlantic, Northeastern, and Appalachian regions of the United States. The geography is highly diverse. The Appalachian Mountains run through its center, and close to 60% of the state is forested.

Report

I am responsible for the marketing and product development of Toppan's pre-coated paper for the North American furniture market. I have had the opportunity to participate in many different projects and have found design inspiration from many places around the world. I value connections with my customers and colleagues and growing together. Outside of work, I enjoy home cooked meals with my family and getting together with friends. Our favorite get-away is to the beach. We look forward to the sun and sand. Our family also loves hiking with our dog Gigi in the local Middle Creek nature preserve.

Margaret Bouhou
Senior Designer
Toppan Interamerica Inc.



MEET OUR PEOPLE

Traveling with My Family Makes Me Return to Work Refreshed

08

CAO ZIQING



At Kuchu Teien Observatory, Umeda Sky Building (Osaka, Japan)

Position/job
Director, Packaging Development

Department & company name
Packaging Development Division,
Toppan (Shanghai) Management
Co., Ltd.

Location (city and country)
Shanghai, China

beautiful scenery, spend quality time with my family, and relieve stress from work, travel also helps me to effectively clear my thoughts so that I can return to work with a better state of mind. I hope that the global pandemic will end soon and all of us can resume our normal home and work lives.

What advice or message do you have for Toppan colleagues around the world?

Combining the strengths of various departments within Toppan leads to “one plus one is greater than two.” I have been able to break through many times because the strengths of people in my workplace helped me realize my own value. Now I understand that *toppa* in Japanese means “breakthrough.”

Cao Ziqing is currently affiliated with the Packaging Development Division at Toppan (Shanghai) Management Co., Ltd. She is responsible for project development, marketing, and support for the packaging division in China. In 2020, she won the President’s Award for a medical and pharmaceutical packaging project in China.

Tell us a bit about how you came to work for Toppan?

I joined Toppan in 2017. Prior to that, I had been working for another Japanese company for 11 years, and was mainly involved in API, pharmaceutical intermediates, and other related work. Around 2017, Toppan’s packaging division was planning to promote medical and pharmaceutical-related packaging products in China, so I took the opportunity to join the company.

What experience have you built up since joining Toppan?

Toppan (Shanghai) Management, as Toppan’s regional headquarters in China, works closely with the packaging, Kansai, Chubu, and other

divisions in Japan. I have been able to communicate and work with colleagues from several different departments. In addition, I successfully filed Toppan’s packaging materials with China’s National Medical Products Administration (China’s DMF filing) while learning and exploring as I went, achieving a breakthrough in this regard.

How do you maintain a good work-life balance?

In my spare time, I love traveling with my family. In addition to allowing me to enjoy

Participating with colleagues in a joint event with the Kansai division



A jianzi competition at Toppan’s Sports festival in Shanghai



At the CPHI exhibition in China



Enjoying Hokkaido with my family

