

KITAKYUSHU OVERSEAS WATER BUSINESS ASSOCIATION

Driving opportunities for water business ventures overseas
through public-private collaboration

Water and sewerage business

KOWBA

Public sector &
Proven capabilities

Private sector &
Proven capabilities

City of Kitakyushu

- Comprehensive policy planning, total business management and operation
- Strong relationship of trust with different countries built on a solid foundation of international cooperation
- Substantial linkages with national governments and related organizations



KOWBA member companies

- Top-of-the-line products and services to meet any need
- Superior quality products and effective technologies
- Extensive lineup of technologies (consulting, design, civil engineering, plant construction, electronics, instrumentation systems, other)

Location & Out Line, City of Kitakyushu

- Western edge of Japanese island → Asian Gateway
- Industrial cluster & technical city → Steel, Chemical, Machinery, Ceramic, IC, etc..
- Surrounded rich nature → Sea coast (210km), Forest (40%)

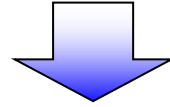


Fundamental Data (Approx)

- Area: 488km²
- Population: 970,000
- Average Temp: 16°C
- Annual rain fall: 1,600mm
- GDP: 3,400 billion YEN

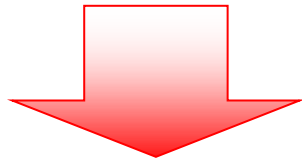
Beginning of industrial modernization, City of Kitakyushu

- ◆ **First city in Japan** (Steel Manufacturing Plant in 1901)

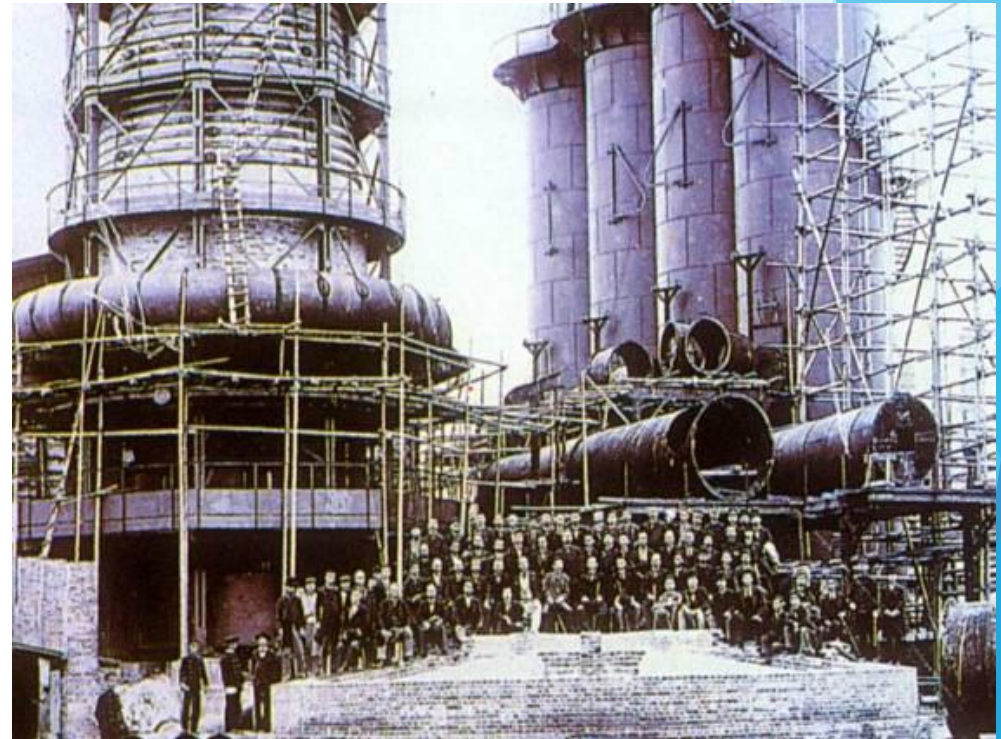


Developed as core heavy industrial city (Steel & Chemical)

- Population Concentration
- Company Concentration

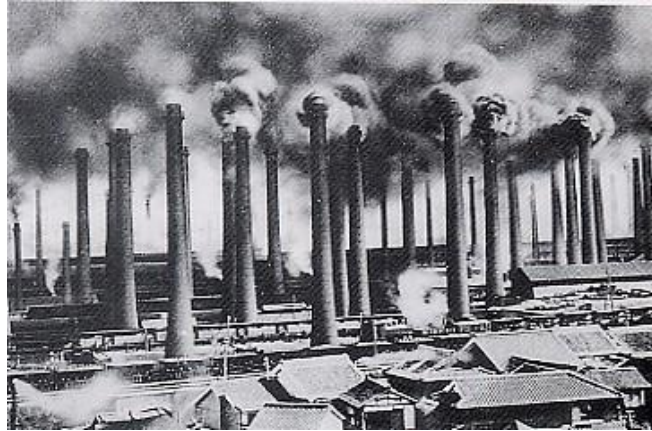


Extend Japanese
high economical
growth

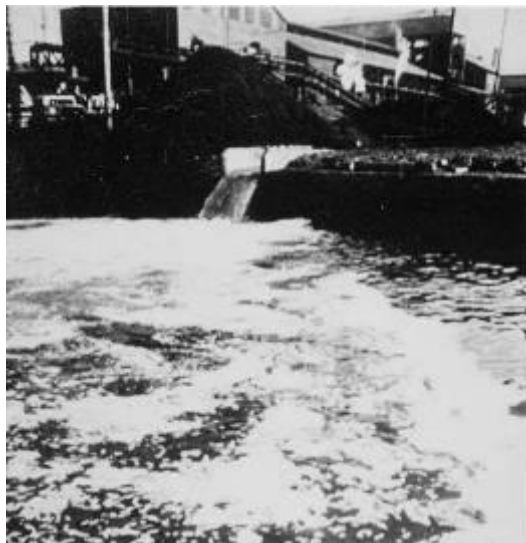


Industrial Development and Pollutions (1950's ~)

- ◆ Many chimney and worst falling dust in Japan (108t/day/km²)



- ◆ Dead bay “Doukai bay”. No creature even coliform bacilli (DO:0.6mg/ℓ、 COD:48.4mg/ℓ)



Melted screw

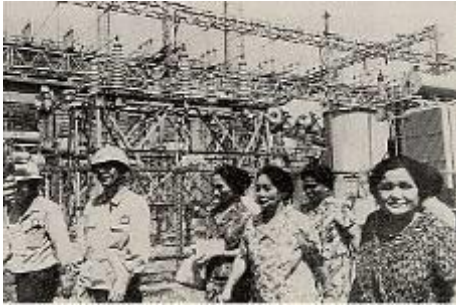
- ◆ Muddy black ditch river “Murasaki river (BOD:58mg/ℓ)



Murasaki River when polluted
(City of Kitakyushu, 1960's)

Efforts for antipollution measure

With the activities of the women's society in City of Kitakyushu, citizen, company, administration effort for antipollution measure together



Company site visit by citizen



Filmmaking by citizen



Class by university professor to citizen



Development of sewerage



Enhancement for regulation and monitoring

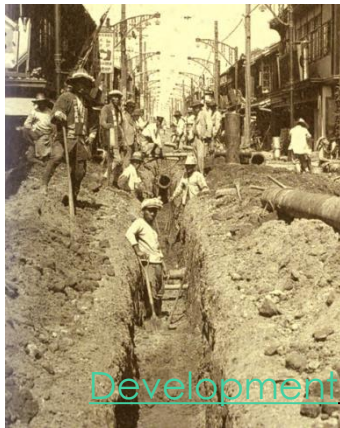


Conclusion on antipollution agreement



Development on cleaner production

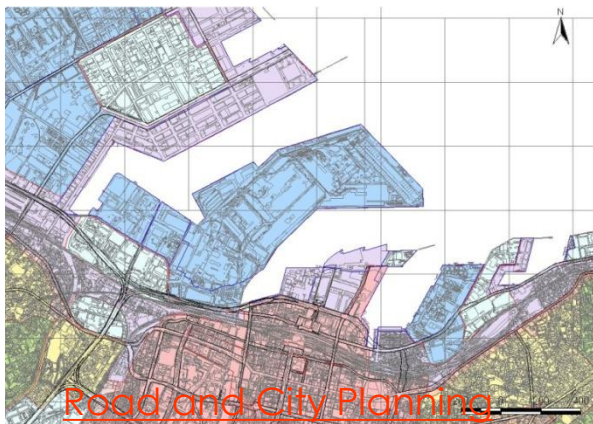
Environmental improvement & Urban development



Development of Urban Water Supply



Development of Urban Sewerage



Road and City Planning

Living environment is improving, by development of urban water supply, sewerage system, and road and city planning with industry and living area division.

Urban Development Project: ZERO carbon town "BON-JONO"



Urban Development with green



- ❑ Carbon ZERO: Low carbonization
- ❑ Elderly and child support: Security & Community
- ❑ Sustainable Town Management: Town Management Organization (TMO)

International cooperation

We cooperate to other country by lifeline facilities development and low carbonization technology for sustainable urban development.

Capacity Building Project on Urban Water Supply

- ◆ Urban Water Supply
 - Cambodia: From 1999 – Now
 - China: 2001 – 2011
 - Vietnam: 2009 – Now
 - Myanmar: 2010 – Now



- ◆ Urban Sewerage System
 - Cambodia: 2014 – Now
 - China: 2011 – Now
 - Vietnam: 2010 – Now
 - Indonesia: 2013 – Now



Sewerage maintenance & management training in Japan

- ◆ Low Carbonization Technology
 - Cambodia: Phnom Penh
 - Myanmar: Mandalay
 - Thai: Chiangmai city
 - Vietnam: Hai Phong

Feasibility study and cooperation on energy saving in Phnom Penh



Water and Sewer Bureau City of Kitakyushu



- Water Supply : established in 1911
- Sewerage : established in 1918

北九州市上下水道局
Kitakyushu City Water and Sewer Bureau

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安心・安全な水で
生活を支えます。

北九州市上下水道局
Kitakyushu City Water And Sewer Bureau



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停止 ||



- ▶ Autonomous Public Corporation
- ▶ Number of Staff : 500 (Engineer : 400)

Public Sector

Kitakyushu City

- More than 100years experience
- Long years overseas experience
- Trust, Sustainability



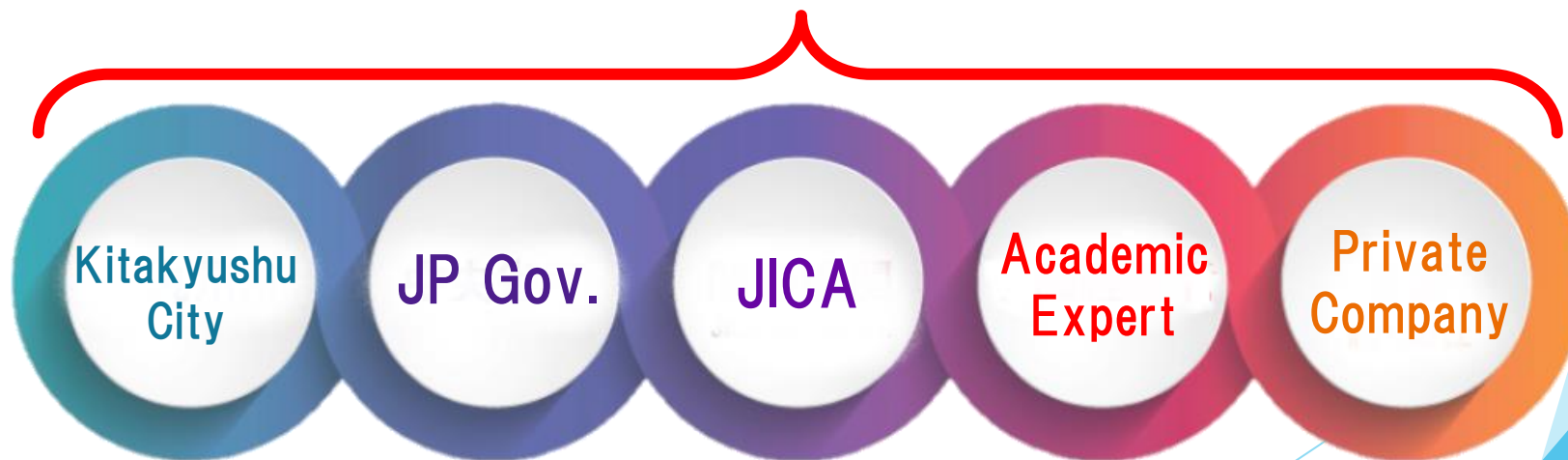
Private Sector

Private Company

- Products & Service meet needs
- Advanced technology & quality
- Speedy, Creative, Finance

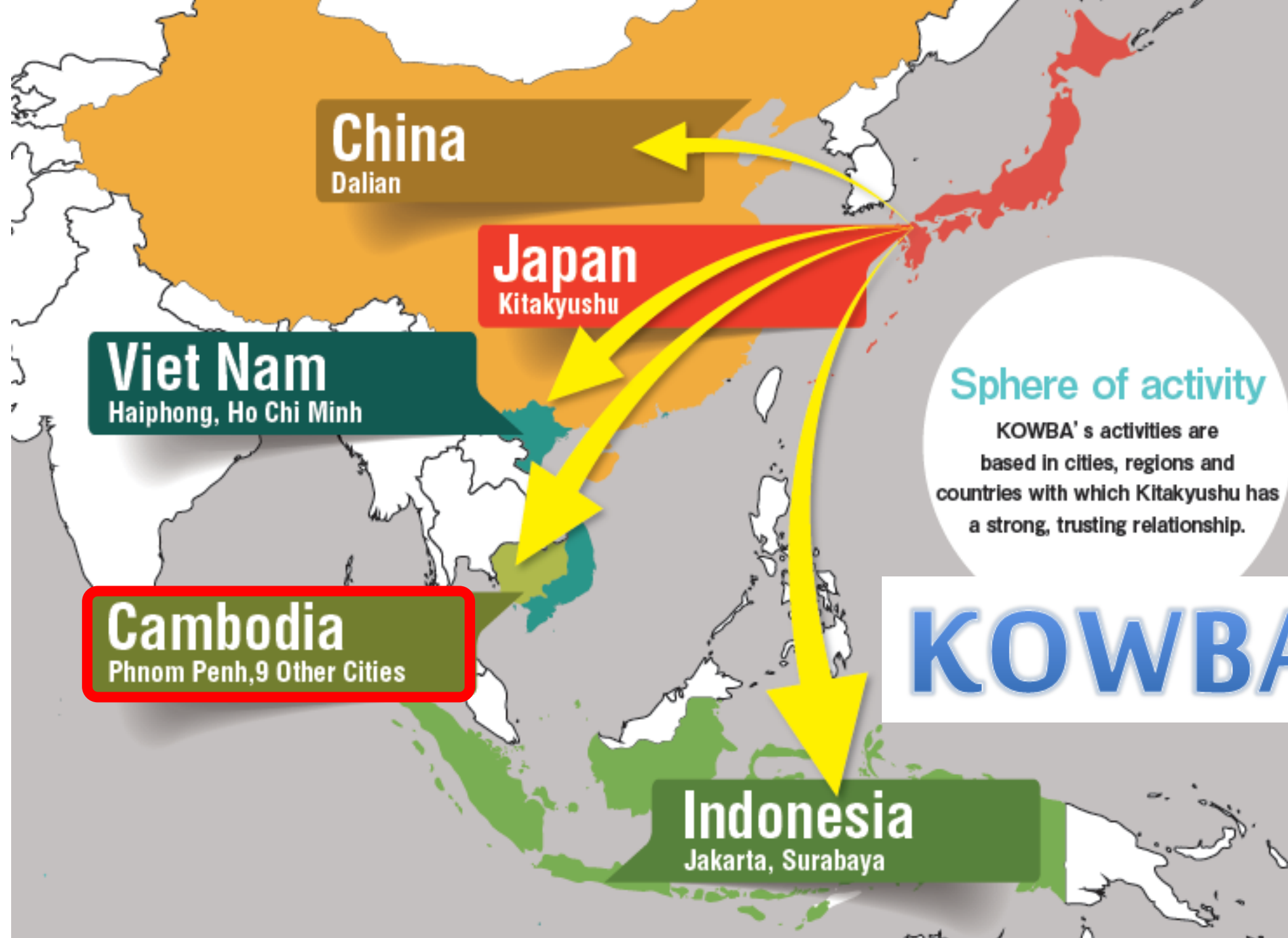
KOWBA

Kitakyushu **O**verseas **W**ater **B**usiness **A**ssociation



Established in 2010

KOWBA



China
Dalian

Japan
Kitakyushu

Viet Nam
Haiphong, Ho Chi Minh

Cambodia
Phnom Penh, 9 Other Cities

Indonesia
Jakarta, Surabaya

Sphere of activity
KOWBA's activities are based in cities, regions and countries with which Kitakyushu has a strong, trusting relationship.

KOWBA



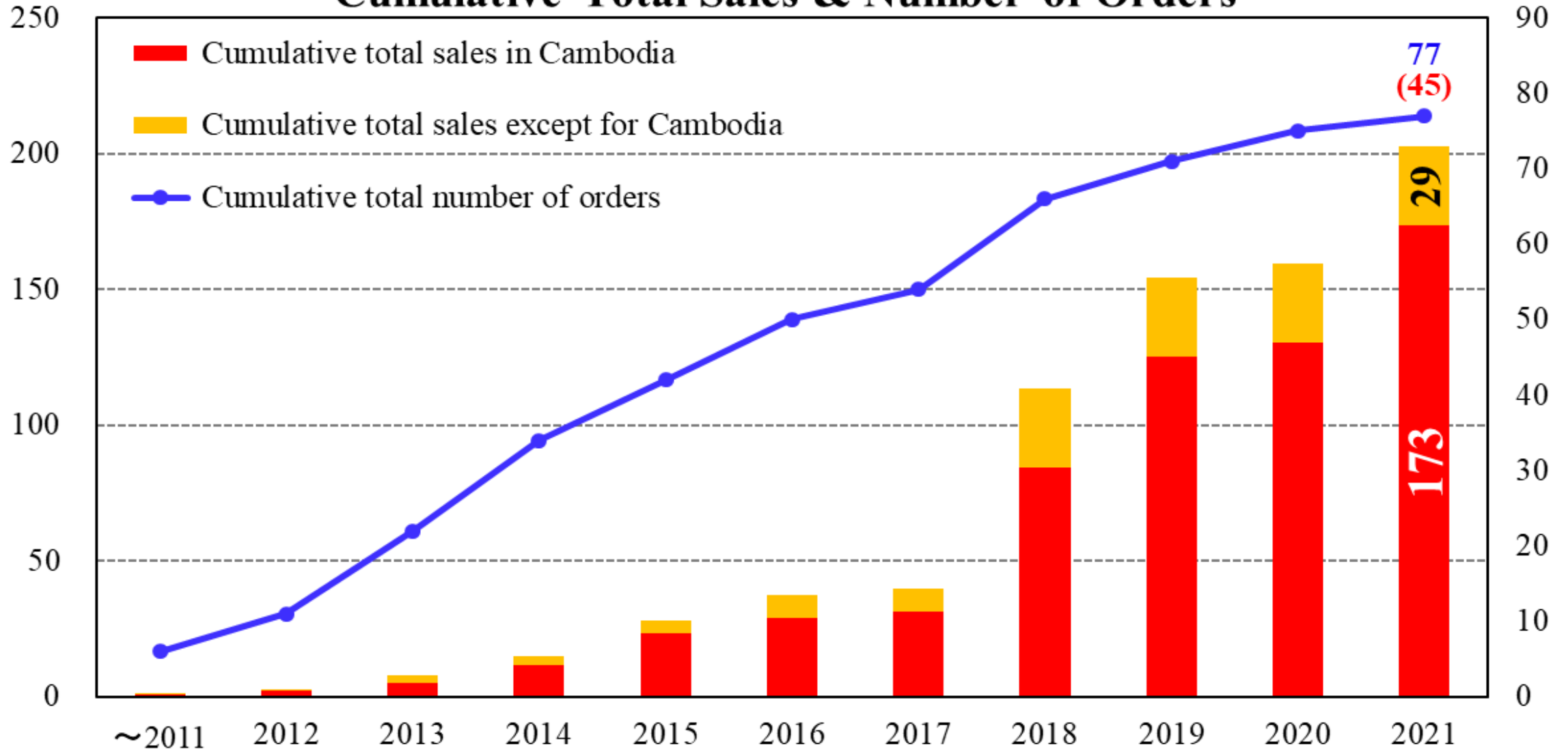
Water Supply Expansion Project
involving **KOWBA** members

KOWBA Overseas Business Track Record

Million USD

Cumulative Total Sales & Number of Orders

No. of Orders



202 Million USD & 77 Orders

(As of August, 2021)

MOU with other organizations

- ▶ KOWBA (Establish 2010)
 - ▶ Phnom Penh Water Supply Authority (Jul 2015)
 - ▶ Ministry of Industry, Science, Technology & Innovation (Jan 2016, Extended on Jan 2021)
 - ▶ Cambodian Water Supply Association (Jan 2021)
 - “Cooperation on Private Water Supply Development”
 - CWA delegation and training in Japan (Jan 2023)

Hitachi

Hitachi Zosen

- **Fiber Filtration System**
 - **For sedimentation**
 - **For rapid filter**

GEO

GEOCRAFT

➤ **AQUA Crew**

➤ **Asset management by GIS**

➤ **Real Model Hydraulic Calculation System**

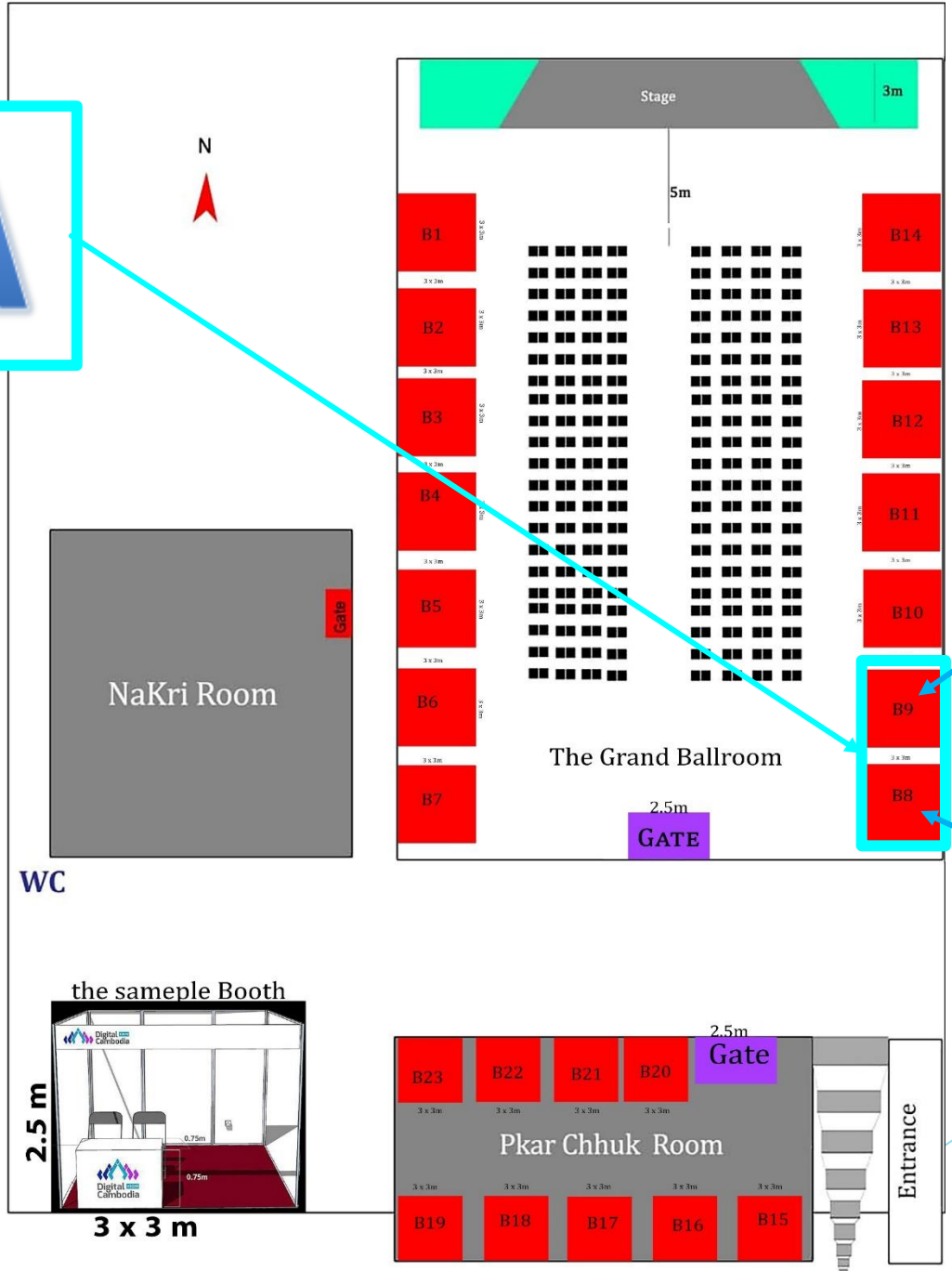
KOWBA

Hitz
Hitachi Zosen



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GEO
GEOCRAFT

**Thank you
for
your kind attention & consideration**

北九州市海外水ビジネス推進協議会
Kitakyushu Overseas Water Business Association

KOWBA

安全・安心な水を、ビジネスを通して世界へ



Delivering Safe Water through Business

KOWBA