

# **Support on Tourism Future City of Bali Province through City-to-City Collaboration**

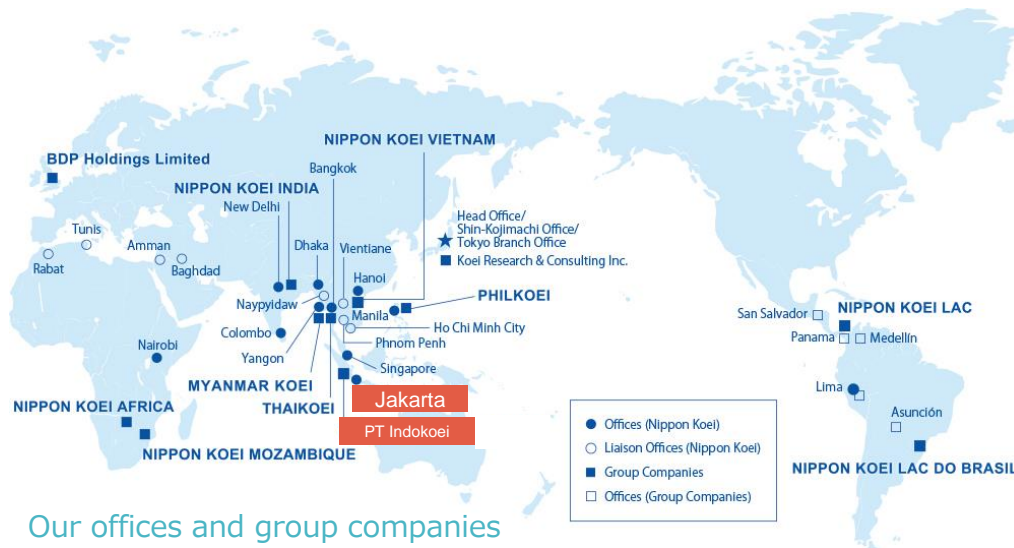
- 1) Introduction of Nippon Koei Co., Ltd.**
- 2) Our supports on city-to-city collaboration**
- 3) Objective and Introduced technologies**
- 4) Implementation structure**
- 5) International consortium**
- 6) Outline of the city-to-city collaboration**
- 7) Schedule**

**July 24, 2018 in JKT**

**Nippon Koei Co., Ltd.**

# 1. Introduction of Nippon Koei Co., Ltd. (NK)

- ▶ **Japan's No.1 International Engineering Consultants** plays a role in nation building around the world through our consulting.



**No.1**  
Sales among  
civil consulting  
firm in Japan

**160**  
Countries  
where we  
operate

over  
**5,500**  
Number of  
orders per year

- ▶ **Environmental Dept. conducts projects on many environmental aspects**

**Air/Water**

**Solid waste**

**Renewable  
energy**

**Forestry/  
Biodiversity**

**Environmental  
impact  
assessment**

**Climate  
change**

**Mitigation**

▶ GHG emission reduction

**Adaptation**

▶ Taking appropriate action to prevent or minimize the damage

## 2. Our supports : the city-to-city collaboration projects

- ▶ NK have a lots of experiences on the city-to-city collaboration projects. (The followings are the current projects by NK support.)

Yangon – Kawasaki  
(2015~)



Ho Chi Minh - Osaka  
(2018~)



Semarang - Toyama  
(2018~)



Batam – Yokohama  
(2016~)



Jakarta – Kawasaki  
(2017~)



Bali - Toyama  
(2018~)



- ▶ The goal is to realize a low-carbon society by utilizing each Japanese city's experiences/knowledge and formulating JCM model projects.




# 3. Objective and Introduced technologies

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## 1-1. Objective

- ▶ In order to materialize a low carbon tourism city in Bali, the project will formulate energy saving / efficiency activities between Bali and Toyama entities.
- ▶ Especially, there are three projects considered as JCM model candidates.
  - ① Energy efficiency project in tourism facilities (hotel etc.)
  - ② Hydropower project on additional power supply
  - ③ Fuel switch project on public transportation system

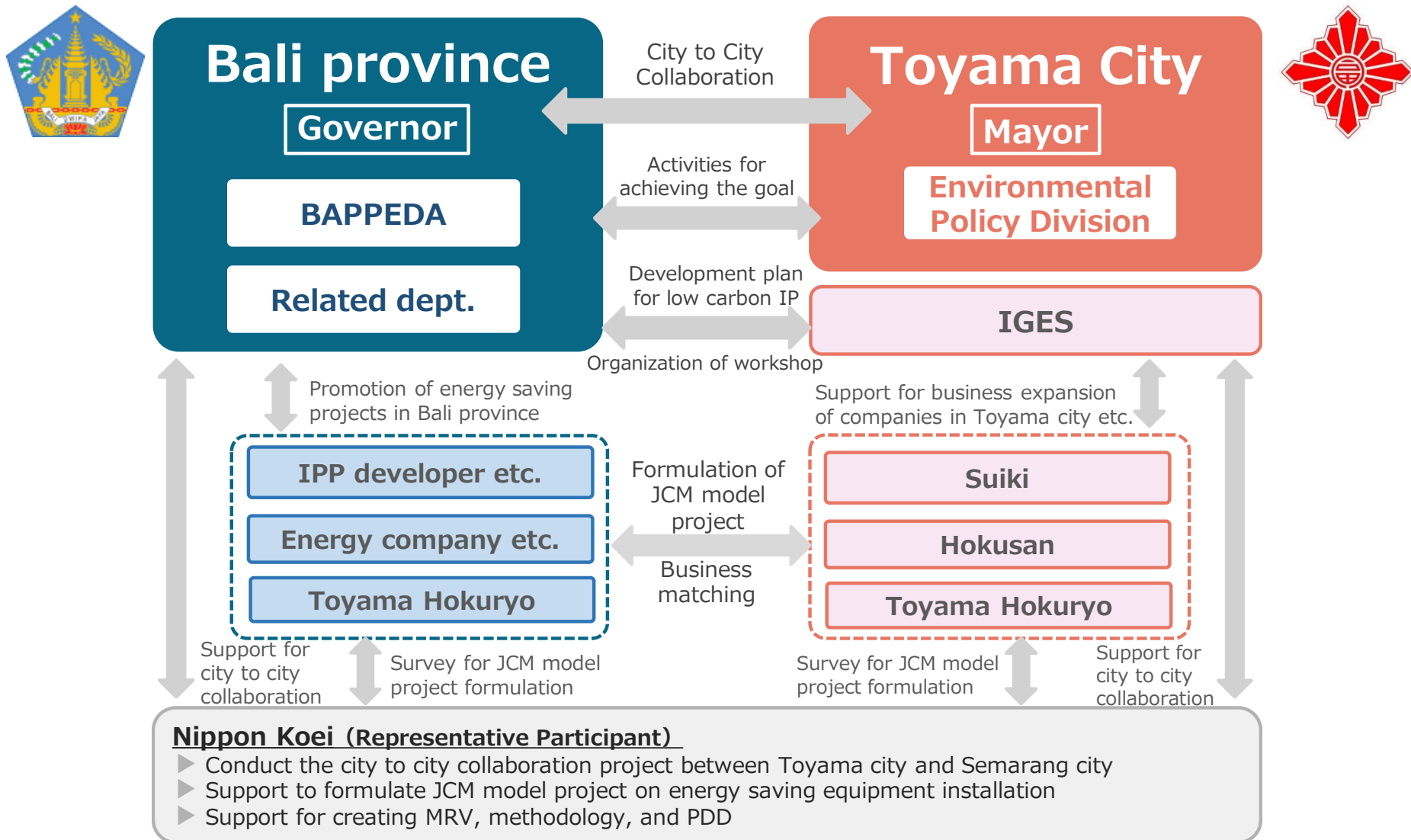
## 1-2. Introduced technologies

| Activities  | Outlines  | Image   |
|---|---|---|
| Introduction of energy efficiency equipment in tourism facilities | To consider energy saving/efficiency in hotel facilities, such as air-conditioning system, hot water production, boiler operation etc.                                    |    |
| Consideration of renewable energy project                         | To consider renewable energy project, such as small hydropower or geothermal power project in the mountainous area, biomass generation project with forest resources etc. |   |
| Consideration of low carbon transportation system                 | To consider low carbon transportation system using fuel switch equipment (diesel oil/coal to CNG), urban transportation system etc.                                       |  |

\*The above technologies are just example, and proper manufacturers/ equipment/ specification will be determined based on the result of this study

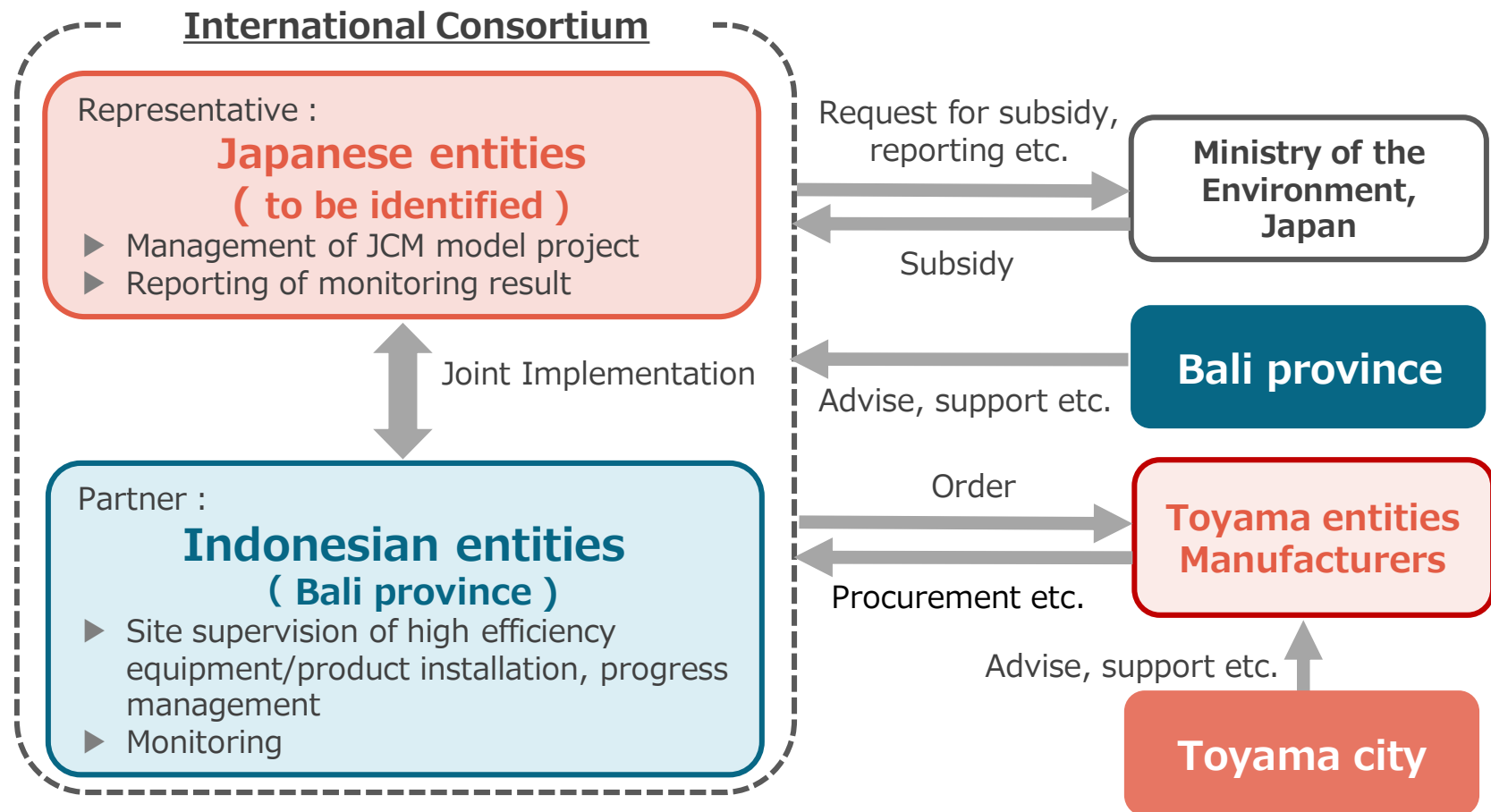
# 4. Implementation structure

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## 5. International consortium, tentative image

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# 6. Outline of the city-to-city collaboration (1/2)

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## 6-1. Process of the city to city collaboration between Bali and Toyama

| Date          | Outlines  |
|---------------|---|
| Mar. 21, 2015 | Conclude technical cooperation on sustainable energy supply project in Tabanan prefecture |
| Nov. 28, 2017 | Conclude technical cooperation on environmental management between Toyama and Bali        |



Conclusion of tech. cooperation on sustainable energy prj. between Toyama and Tabanan



Conclusion of tech. cooperation management between Toyama and Bali

## 6-2. Activities of Toyama and expected outcomes by city-to-city collaboration

### Toyama



Experiences as an environment city

- ▶ Environment model city (2008)
- ▶ Environment future city (2011)
- ▶ UN SE for ALL (2014)
- ▶ G7 Toyama meeting

Advanced activities

- ▶ Share Toyama experience on Environment future city Toyama through the C2C collaboration
- ▶ Promotion of recycling system on eco town, such as Toyama eco town IP etc.

### Bali



Support on policy make contributing to realization of future tourism city

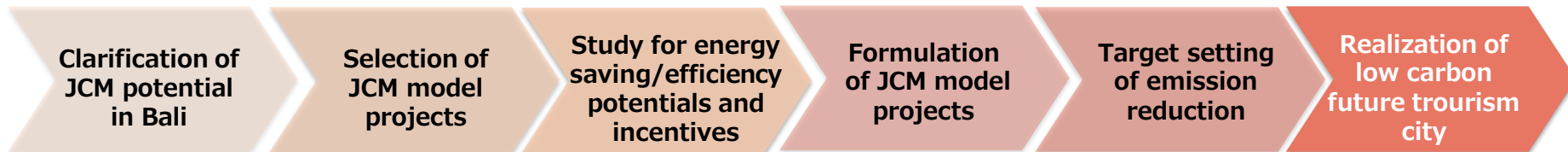
Achievement of sectoral mitigation target on tourism sector

Enhancement plan of low carbon public transportation

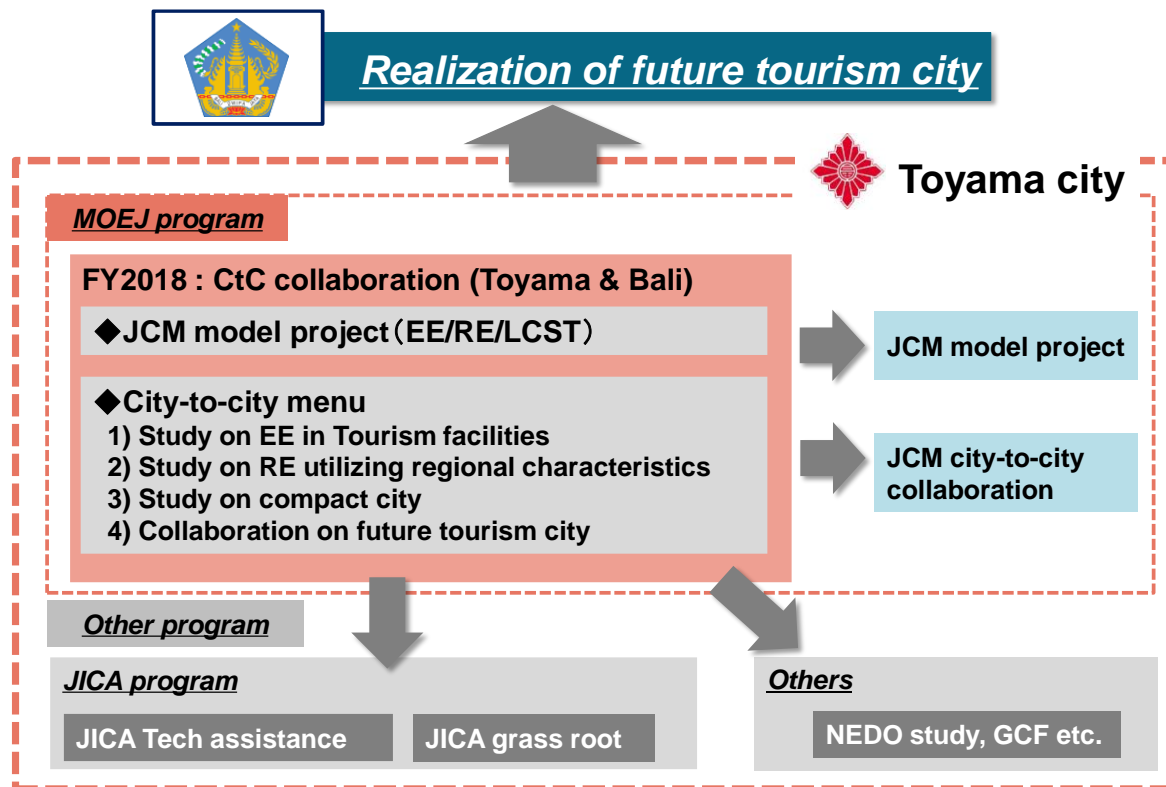
# 6. Outline of the city-to-city collaboration (2/2)

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## 6-3. Strategic steps for achievement of low carbon society



## 6-4. Effect of city-to-city collaboration





# 7. Schedule, tentative

Support on Tourism Future City of Bali Province through City-to-City Collaboration

| Item  |   | 2018 |     |     |     |     |     |     |     | 2019 |     |
|---|---|------|-----|-----|-----|-----|-----|-----|-----|------|-----|
| (1) Study Item                                      |   | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb |
| 1   | Selection of JCM model projects in three sectors    |      |     |     |     |     |     |     |     |      |     |
| 2   | Preparation of international consortium             |      |     |     |     |     |     |     |     |      |     |
| 3   | Confirmation of environmental approval etc.         |      |     |     |     |     |     |     |     |      |     |
| 4   | Potential study of JCM model projects               |      |     |     |     |     |     |     |     |      |     |
| 5   | Study for JCM application condition                 |      |     |     |     |     |     |     |     |      |     |
| 6   | Business matching of Toyama companies, if necessary |      |     |     |     |     |     |     |     |      |     |
| 7   | Formulation of energy saving promotion program      |      |     |     |     |     |     |     |     |      |     |
| (2) Field survey/ Workshop                          |   | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb |
| 1   | Kick-off meeting                                    |      |     |     |     |     |     |     |     |      |     |
| 2   | Meeting with HCMC/ Field survey                     |      |     |     |     |     |     |     |     |      |     |
| 3   | Workshop  |      |     |     |     |     |     |     |     |      |     |
| (3) Monthly report・Meeting in Japan・Conference etc. |   | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb |
| 1   | Monthly report                                      |      |     |     |     |     |     |     |     |      |     |
| 2   | Meeting in Toyama city                              |      |     |     |     |     |     |     |     |      |     |
| 3   | Progress meeting (MOEJ)                             |      |     |     |     |     |     |     |     |      |     |
| 4   | JCM seminar organized by MOEJ                       |      |     |     |     |     |     |     |     |      |     |
| 5   | Invitation of Bali officers to Japan                |      |     |     |     |     |     |     |     |      |     |
| 6   | Final report  |      |     |     |     |     |     |     |     |      |     |