

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

- 1) Objective and Introduced technologies
- 2) Implementation structure
- 3) International consortium
- 4) Outline of the city-to-city collaboration
- 5) Schedule

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Nippon Koei Co., Ltd.




1. 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

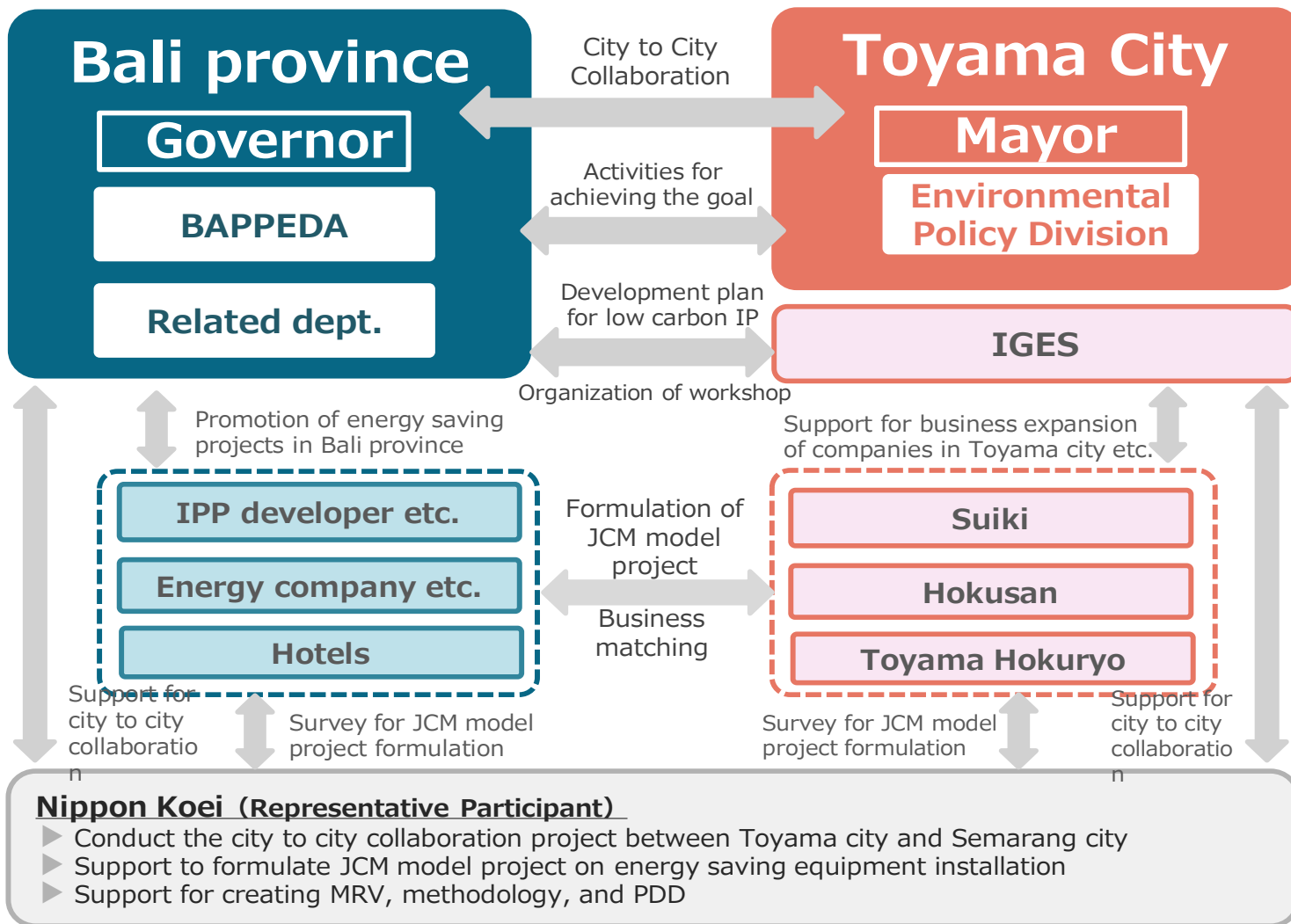
1-2. Introduced technologies

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

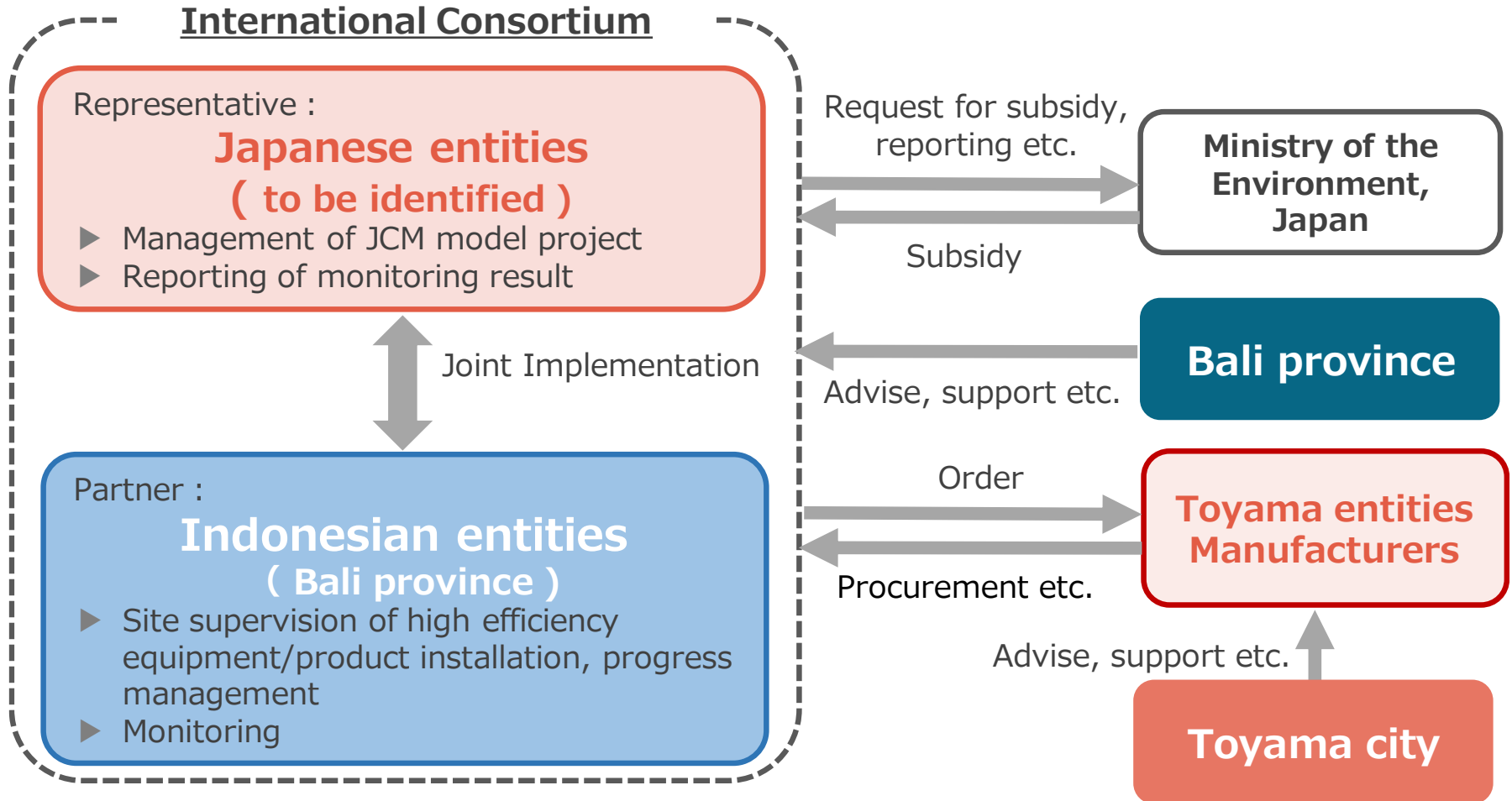
2. Implementation structure

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3. International consortium, tentative image

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4. 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, 2014	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

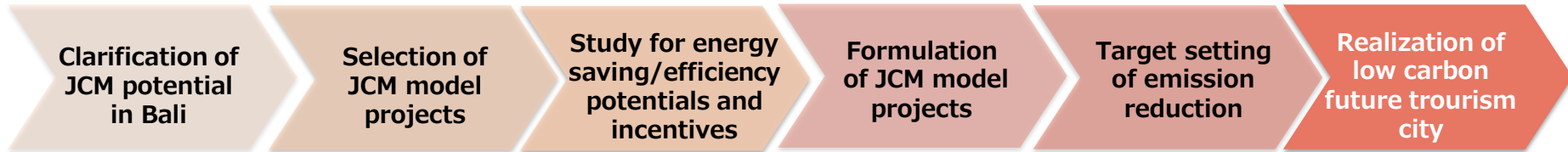
Achievement of sectoral mitigation target on tourism sector

Enhancement plan of low carbon public transportation

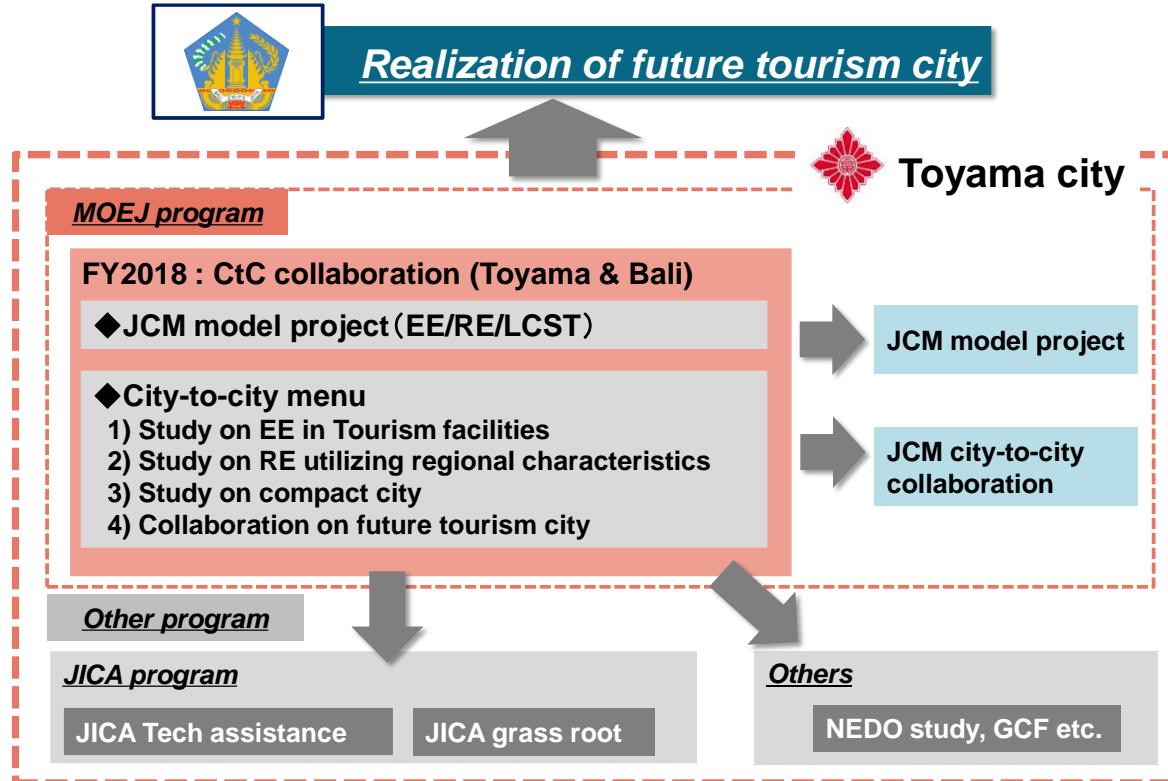
4. Outline of the city-to-city collaboration (2/2)

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



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



5. Schedule, tentative

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Item	2018								2019		
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
(1) Study Item											
1		—————									
2			—————								
3			—————								
4		—————									
5				—————							
6							—————				
7								—————			
(2) Field survey/ Workshop											
1		...★									
2		—		—		—			—		
3							★			
(3) Monthly report · Meeting in Japan · Conference etc.											
1	★	★	★	★	★	★	★	★	★	★	
2						★					
3	★			★			★			★	
4						...★					
5						...★					
6									—————★		

Map of Bali Province



Source: <https://www.bali.com/map.html>