

# “Quality Infrastructure” for Africa

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Ministry of Land, Infrastructure, Transport and Tourism  
Government of Japan



Japan-Africa Infrastructure  
Development Association

**Quality Infrastructure Investment** is critical as a driver of economic prosperity and a solid basis for economic growth and sustainable development.

**Japan has been leading** international discussions and actively **promoting “quality infrastructure investment”** at international conferences and bilateral leaders' meetings.

# What is “Quality Infrastructure Investment”



## 6 Principles for Promoting Quality Infrastructure Investment

■ **Maximizing the positive impact of infrastructure to achieve sustainable growth and development**

■ **Raising Economic Efficiency in View of Life-Cycle Cost**

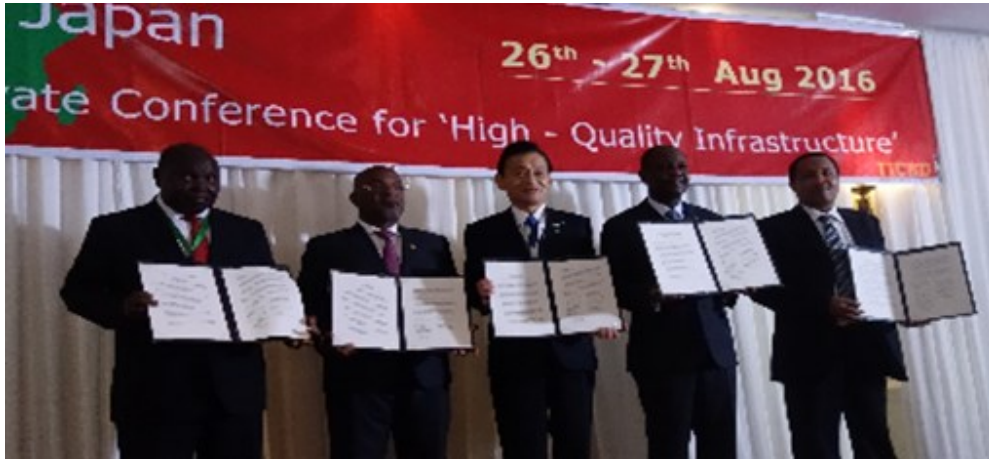
■ **Integrating Environmental Considerations in Infrastructure Investments**

■ **Building Resilience against Natural Disasters and Other Risks**

■ **Integrating Social Considerations in Infrastructure Investment**

■ **Strengthening Infrastructure Governance**

JAIDA is the public-private focal point for “Quality Infrastructure”



Established: September 2016 (TICAD VI)

We have expertise and experiences of practicing the QI concept



Japan-Africa Infrastructure  
Development Association

Members: 194 private companies and institutes  
(as of Sep. 2024) in various fields relating to infrastructure

Secretariat: MLIT, the Government of Japan

## Policy dialogue (QIC/QID)

### Multilateral Conference

- TICAD VI in Nairobi (2016)
- TICAD 7 in Yokohama (2019)
- TICAD 8 in Tunis (2022)
- TICAD 9 in Yokohama (2025:TBD)

### Bilateral Conference (14 countries)

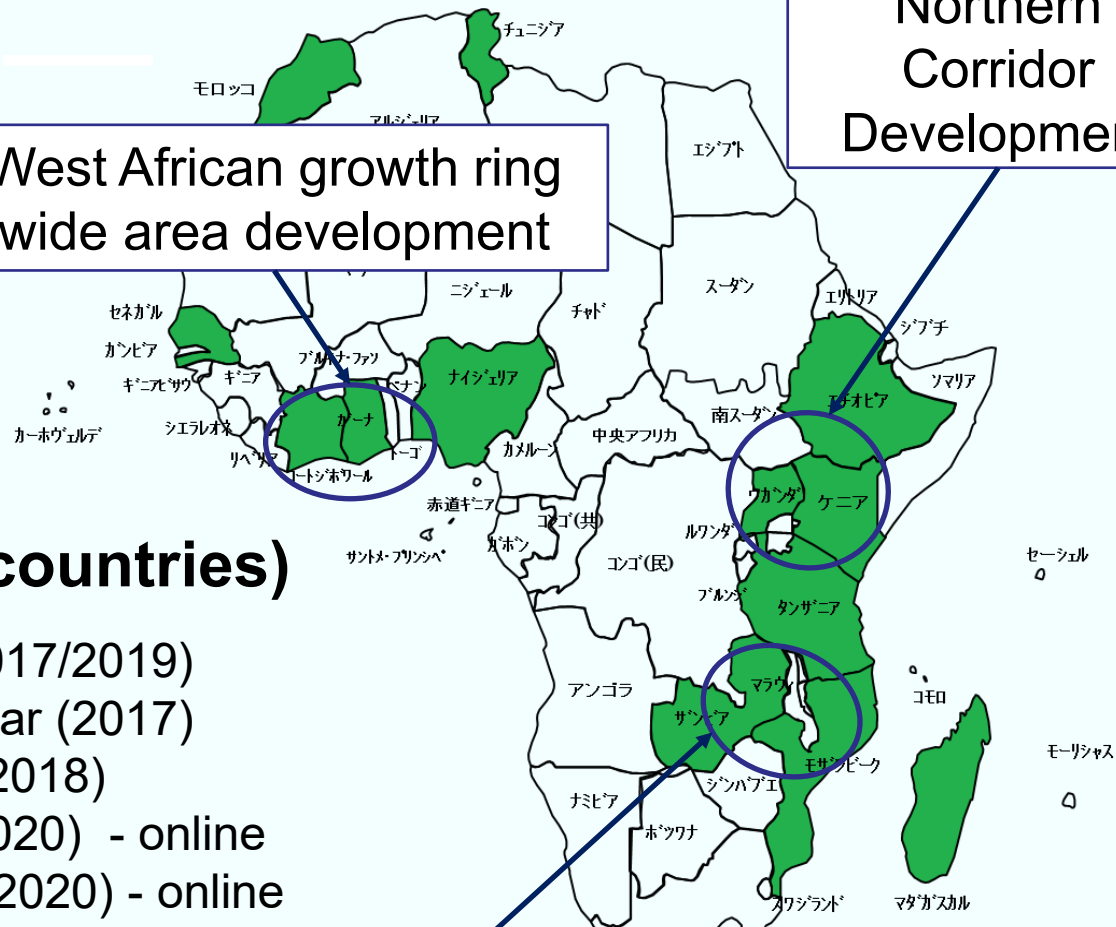
- |                               |                           |
|-------------------------------|---------------------------|
| - Ethiopia (2015/2020)        | - Ghana (2017/2019)       |
| - Kenya (2015/2024)           | - Madagascar (2017)       |
| - Mozambique (2016)           | - Senegal (2018)          |
| - Tanzania (2016/2019)        | - Tunisia (2020) - online |
| - <b>Côte d'Ivoire (2016)</b> | - Morocco (2020) - online |
| - Nigeria (2016)              | - Cameroon (2023)         |
| - Uganda (2017/2023)          |                           |
| - Zambia (2017)               |                           |

West African growth ring  
wide area development

East African  
Northern  
Corridor  
Development

Nacala corridor  
development

Free and open  
India-Pacific  
strategy





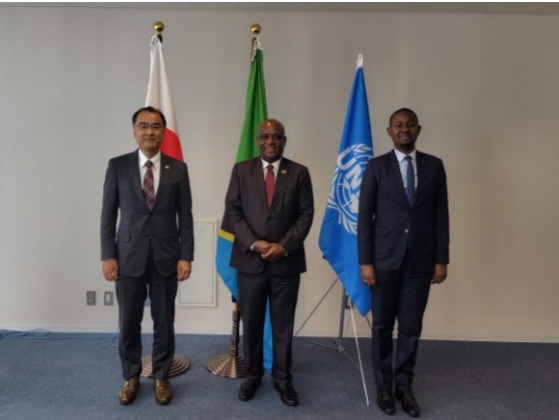
## Kenia – Japan QIC (January 2024)



## MOU for PPP cooperation



## Meeting with Tanzania Investment Center in Tokyo (May 2024)



▶ Tanzania – Japan QID to be held (October 3<sup>rd</sup> 2024)

## G20 Principles

Principle 1: Maximizing the positive impact of infrastructure to achieve sustainable growth and development

Principle 2: Raising Economic Efficiency in View of Life-Cycle Cost

Principle 3: Environmental Considerations

Principle 4: Building Resilience against Natural Disasters and Other Risks

Principle 5: Social Considerations

Principle 6: Infrastructure Governance

## Main Value

- **Technology transfer**, enhanced **skills** and **institutional development** support
- **Long life** use
- **Low life cycle cost**
- Reliable technology backed by experience of development cooperation with consideration for the **environment** and **disaster prevention**
- Construction that considers the **local community** and **safety**
- Appropriate operation, **maintenance** and **management**

## High economic efficiency

### Bangkok MRT Purple Line [Thailand]

- Rolling stocks introduced to the Purple Line are Japan-made stainless steel cars that are **lightweight, energy-saving and reduce maintenance costs.**
- Japanese railway operator, engaged in this project as a maintenance services provider, has **provided integrated knowledge and expertise.**



## Capacity building

### Nhat Tan Bridge (Vietnam-Japan Friendship Bridge) [Vietnam]

- **Local companies learned project management methods** that support Japanese cutting-edge technology.
- Sharing performance data from Japanese factories enabled Vietnamese factories to produce parts accurately and **technology transfer of know-how was successful.**





## Certainty of contract performance

### Neak Loeung Bridge [Cambodia]

- Although construction halted for 4 months due to an explosion caused by unexploded ordnance, it was **completed within the scheduled period.**
- After completion, **maintenance is being carried out by Ministry with support from Japan.**



## Technical capabilities

### Development and Operation of Thilawa Port [Myanmar]

- **Performing environmental-friendly construction** by installing silt protection at dredging and disposal, promotion of recycling and proper processing of waste materials.
- **The earthquake-resistant jacket system** helps the port function.



# Cases of Quality Infrastructure (Cote d'Ivoire)

Sustainable  
Development



## Development of the Cote d'Ivoire - Japan Friendship Intersection Project

### Project Summary

The project will support the conversion of the Côte d'Ivoire-Japan Friendship Intersection into a multi-level intersection (construction of a flyover, intersection improvement, and installation of traffic lights).

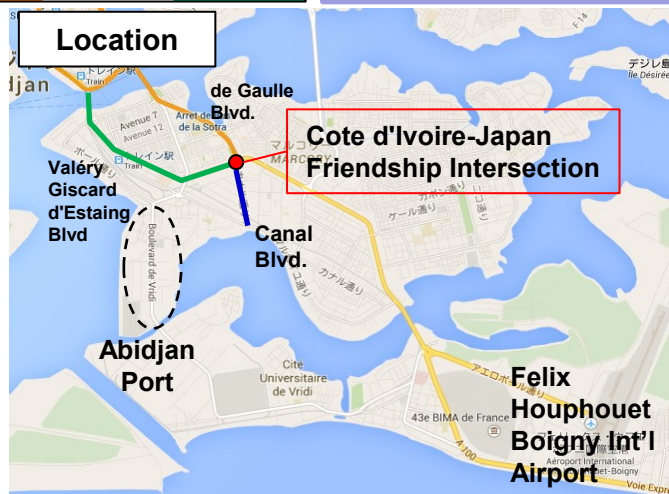
This will increase the traffic capacity and facilitate traffic between the city center and the suburbs, thereby **contributing to the improvement of traffic convenience and logistics in the city.**

### Key aspects as *quality infrastructure*

- **Facilitating traffic** between the city center and the suburbs, **thereby contributing to the acceleration of economic growth** in Cote d'Ivoire.

**Progress** G/A : 2015, Start : 2016,  
Completion : 2019

**Contractor** DAIHO CORPORATION



Before construction (Courtesy of the JICA webpage)



After construction (Courtesy of the JICA webpage)

# Cases of Quality Infrastructure (Tanzania)

## Social Considerations



(Photo) Completed Tazara intersection (Courtesy of Sumitomo Mitsui Construction)

## Improvement of Tazara Intersection

### Project Summary

Construction to improve the intersection which included Tanzania's first ever elevated-type route which crossed the intersection, along with improvements on linking neighboring traffic signals

### Key aspects as *quality infrastructure*

- **Safety for passing vehicles and local citizens going to regional hospitals and shops has to be ensured.**
- A Japanese company **took measures to enable accident-free and on-time construction, such as**
  - Secured 2 lanes for vehicles on each side, as well as 3m wide sidewalks on both sides for pedestrian
  - Constructed a temporary gate to avoid over-sized vehicles' entrance into the intersection under construction.
  - Stationed traffic police officers and guards for 24hours to control traffic.

### Progress

G/A : 2013 · 2014 · 2015,  
Start : 2015, Completion :  
2018

### Contractor

Sumitomo Mitsui  
Construction

# Cases of Quality Infrastructure (Kenya)

Life-Cycle  
Cost



## Mombasa Port reclamation construction

### Project Summary

Development of a container terminal



### Key aspects as quality infrastructure

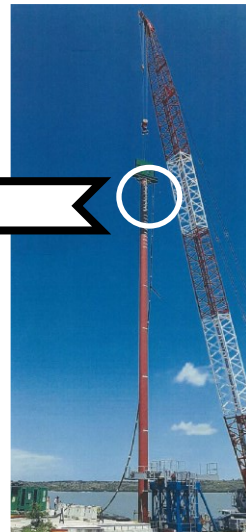
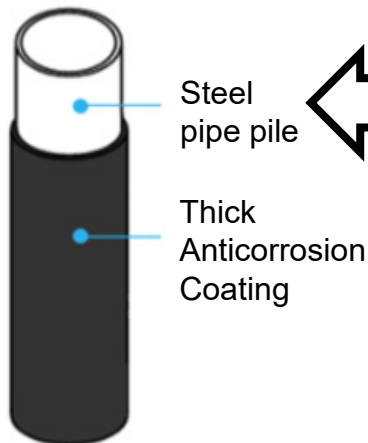
- The heavy-duty anticorrosion coated method was used to protect piles in seawater from corrosion when constructing 900-m berth at Mombasa Port. The price of heavy-duty anti corrosion coated piles is expensive than normal coated ones, but the boost in durability offers longer years of service, making it less expensive in a long-run.

### Progress

E/N,L/A:2007, Start:2012,  
Completion:2026

### Contractor

TOYO CONSTRUCTION



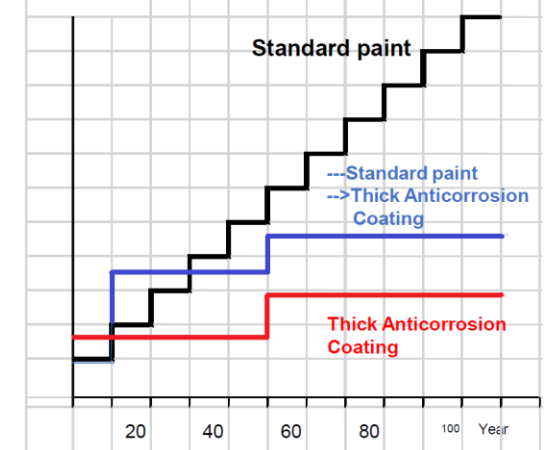
Example of no anticorrosion treatment



From the Research Group for Corrosion Protection & Repair Method webpage

(Photo) Thick anticorrosion coated pile (white area) used for the Mombasa Port reclamation construction (Courtesy of Toyo Construction)

LCC comparison for 100 years of service  
Yen/m<sup>2</sup>



(Source) Created from the "Thick Anticorrosion Coating—From anticorrosion principles to design, construction and maintenance— Japanese Society of Steel Construction"



## Sustainable Development



## Matadi Bridge

### Project Summary

Matadi Bridge is a suspension bridge that spans 720m, constructed by a Japanese ODA in 1983. Japanese corporations participated in construction, along with **maintenance and management support**, which was continued until it was aborted due to domestic conflict.

### Key aspects as quality infrastructure

- **One-on-one human resource training in engineering and administration was conducted for future maintenance and management**
- The OBEK members continued bridge maintenance and management with the manuals and equipment left by Japanese corporations, enabling the continued use of the bridge in good condition.

### Progress

G/A : 2014, Start : 2014,  
Completion : 2017

### Contractor

IHI Infrastructure Systems



Matadi Bridge (photo cited from JICA)



30 years ceremony (the flag saying 'welcome Japanese')



The key to realize Quality Infrastructure is to mobilize both the power of public and private sectors.

Public Sector



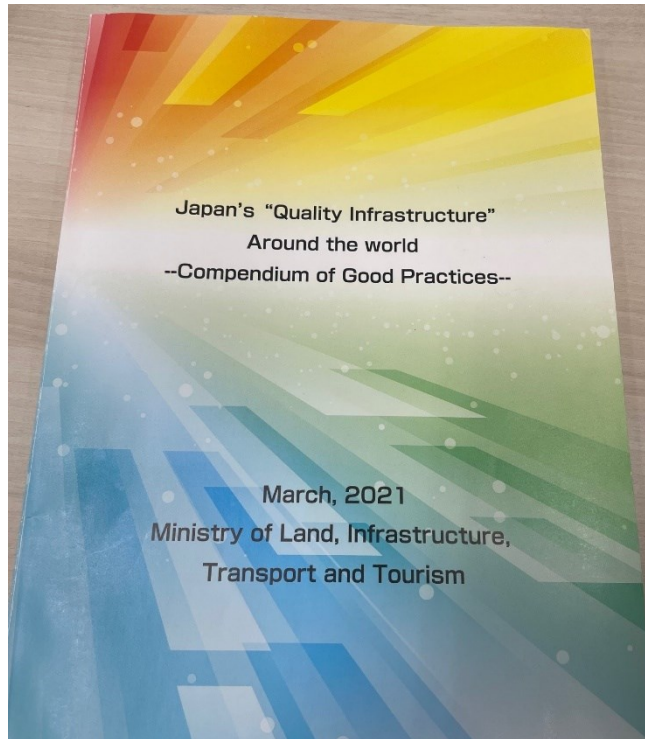
Private Sector



# Full Story of Principles and Cases

MLIT provides the booklet describing the concept of the “quality infrastructure investment” and cases aligned with six principles conducted by Japanese companies.

‘Take a look at ‘Japan’s “Quality Infrastructure” Around the world –Compendium of Good Practices–’.



Download full version here



<https://www.mlit.go.jp/kokusai/content/001397311.pdf>

Thank you very much  
for your attention



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<https://ab-network.jp/jaida?lang=en>



[hqt-Jaida@mlit.go.jp](mailto:hqt-Jaida@mlit.go.jp)