



7th ASEAN - Japan Smart Cities Network High Level Meeting

10-11th November 2025, Takamatsu City, Japan

Inclusive & Climate-Resilient Smart City Development

Case Studies from Two Cities in Vietnam

Urban Development Agency

Ministry of Construction, S.R. of Vietnam

Initial Approach

2014 - 2017

In 2014, **Da Nang City** approved the Smart City Development Project for the 2014 – 2020 period.

In 2017, **Ho Chi Minh City** approved the Smart City Development Project for the 2017 – 2020 period.

Project 950

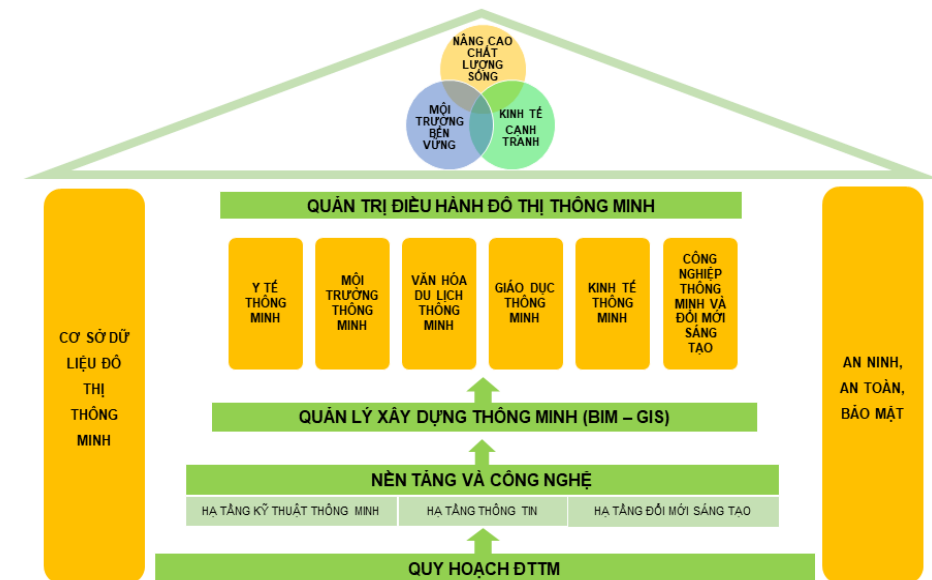
2018

Prime Minister issued Decision No. 950 dated August 1st 2018, approving the **Scheme for Sustainable Smart City Development of Vietnam 2018–2025**, which 26/34 provinces and cities have since implemented.

Decree on Smart City Development

2025

The Government passed Decree No. 269/2025/ND-CP dated October 14rd, 2025 on **Smart City Development**.



Joining ASEAN SMART CITY NETWORK and implementing ASCN Smart City Framework

1. Overview

- **Da Nang** - one of six Cities under Central Administration - is a major commercial, educational, transportation and tourism hub in the Central of Vietnam.
- Da Nang covers an area of 11,859.6 km² and has a population of 2,819,900 people.



Hoi An Ancient Town

2. Challenges

- Rapid urban infrastructure expansion has increased pressure on security, traffic coordination, environmental and tourism management
- Flooding, pollution occurs frequently
- High frequency of natural disasters requires enhanced capabilities for early warning, response and smarter emergency management.



Hoi An Ancient Town on 27/10/2025

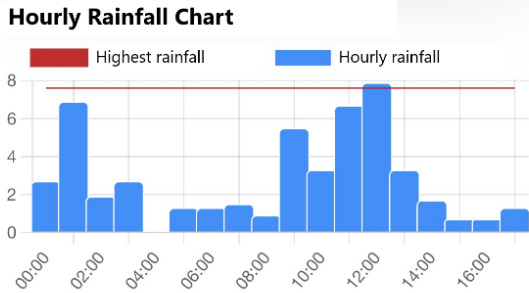
Climate change disrupts lives and turns security into uncertainty



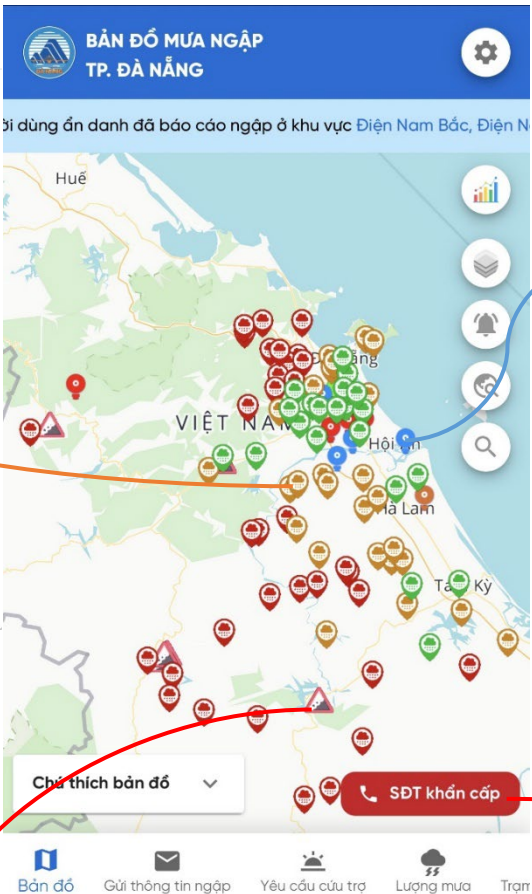
Rain & Flood Map

Chùa Linh Ứng
Heavy rain

Rainfall Information	
Rainfall today	58mm/24h
Rainfall in the last hour	7.6mm/1h
Rainfall yesterday	9.8mm/24h



- Map legends
- Flood over 75cm
 - Flood over 50 cm
 - Flood over 25 cm
 - Flood under 25 cm
 - Landslide occurred
 - In danger of landslide
 - Fallen trees
 - No rain
 - Light rain
 - Moderate rain
 - Heavy rain
 - Extremely heavy rain



Regular Flooded Area
An Thang Ward, Da Nang City

Flooded Area Information

Flood Level: 130 (cm)

Flood Location: Điện Thắng Trung, Điện Thắng Trung, Điện Bàn, Quảng Nam

Flooded Area Endpoint: Điện Thắng Trung, Điện Thắng Trung, Điện Bàn, Quảng Nam

Type of Flood: Indoors

Time of Flood: T3, 28/10/2025, 13:57 PM

Photos: [Four small thumbnail images showing flooded areas]

Current Status: Flood ongoing

- Emergency Numbers**
- Office for City Civil Defense: 0236 3821 274
 - Civil Defense Hotline: 112
 - Department of Natural Disaster Prevention and Control: 0236 3626 222
 - Maritime Search and Rescue: 0235 3852 452
 - Intelligent Operations Center: 0236 1022

3. Danang Smart City App

Danang Smart City App was launch in late 2020 to provide citizens information and services in areas such as flood prevention, disaster warnings, smart education, healthcare, tourism, transportation, and other fields.



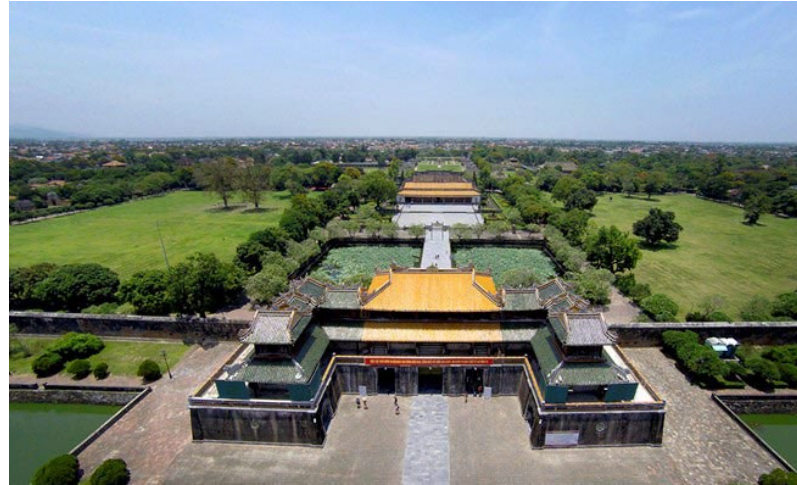
Residents are calm and prepared in dealing with climate change

1. Overview

- **Hue** – one of the six Cities under Central Administration - is a key cultural, educational, and tourism center in the Central of Vietnam.
- Hue covers an area of 4,947 km² and has a population of 1,236,393 people.

2. Challenges

- The ancient urban structure, narrow infrastructure, and dense heritage areas in the city that challenge great pressure on traffic, drainage, and other infrastructure.
- Flooding, storms more and more frequently as a result of climate change.
- Rapid tourism growth requires smart management of security, environment, and visitor experience.



Hue Citadel



Aerial view



Hue Citadel on 28/10/2025



Aerial view on 28/10/2025

3. Hue-S App

- Hue-S is a mobile platform application developed as a super app, integrating urban services in administration, healthcare, education, transportation, tourism, and disaster warning.
- With continuously updated information on rainfall, flooding, and landslides available on the application, all citizens have full access to timely information and support in the event of natural disasters.

App Interface

Thông tin cảnh báo sớm | Bảo vệ người tiêu dùng | Công khai vi phạm

Du lịch Huế

Dành cho công dân

Truyền thông cảnh báo | Phản ánh hiện trường | Hỏi cơ quan nhà nước | Dịch vụ công

Mua sắm thanh toán | Thời tiết thiên tai | Giáo dục | Tiện ích khác

Dành cho Doanh nghiệp, Tổ chức

Hỗ trợ pháp lý | Chính sách doanh nghiệp | Dịch vụ doanh nghiệp

Rainfall Data

Từ 19:00 ngày 27/10 đến 11:00 ngày 28/10
Nguồn: VP BCH PCTT&TKCN Thành phố Huế

Tìm kiếm khu vực, trạm...

Đình Bạch Mã (Phú Lộc)	494.0 mm	Mưa rất to
Phú Lộc	4.80 mm	
Trạm kiểm lâm Khe Mò Rang	368.8 mm	Mưa rất to
Phú Lộc	3.60 mm	
Thượng Quảng (Phú Lộc)	363.6 mm	Mưa rất to
Long Quảng	0.60 mm	
Đập, Thủy điện Thượng Nhật (Phú Lộc)	351.8 mm	Mưa rất to
Nam Đông	3.60 mm	
Hồ Tà Rinh (Phú Lộc)	346.0 mm	Mưa rất to
Nam Đông	0.40 mm	
A Đốt (A Lưới)	274.2 mm	
A Lưới 4		

Landslide Hazards Map

(Nguồn: VP BCH PCTT&TKCN Thành phố Huế)

Mức độ nguy cơ:

- Trung bình
- Cao
- Rất cao

River Level Chart

Sông Hương (Dã Viên)

tháng 10 / tháng 11 2025

T2 27 | T3 28 | T4 29 | T5 30 | T6 31 | T7 1 | CN 2

Thủy điện Hương Diên

57.72m ↓ (Htl) | 1804m3/s ↓ (Qđi)

Thủy điện Bình Diên

85m ↓ (Htl) | 2019m3/s ↓ (Qđi)

Thủy điện A Lưới

552.705m ↓ (Htl) | 828.66m3/s ↑ (Qđi)

Thủy điện Thượng Lộ

--- m (Htl) | --- m3/s (Qđi)

Thủy điện Thượng Nhật

--- m (Htl) | --- m3/s (Qđi)

Thủy điện A Roàng

468.230m ↑ (Htl) | 246.09m3/s ↑ (Qđi)

Thủy điện Sông Bồ

--- m (Htl) | --- m3/s (Qđi)

4. International Cooperation

Vietnam and Japan have jointly developed and operated a flood forecasting and management system for the **Hương River basin (Hue)** using advanced X-band radar technology, enabling highly accurate rainfall prediction and enhancing effective flood management capacity.



Vietnam's Minister of Agriculture and Environment and Japan's Minister of Land, Infrastructure, Transport and Tourism signed the extension of the Memorandum of Understanding on Cooperation for the 2026–2030 period.

Although smart city initiatives cannot prevent natural phenomena such as rainfall or urban flooding, the timely dissemination of information and continuous citizen support have significantly enhanced urban resilience and adaptive capacity.

- 1** Share experiences and support Vietnamese cities in (1) developing early warning systems to strengthen forecasting capacity and minimize disaster risks, and (2) planning and implementation of smart city development.
- 2** Support Vietnam in the process of researching and developing the guidelines of smart city evaluation to approach international recognition.
- 3** Capacity-building programs on urban planning, smart city development and climate-resilient urban management.





Thank you!