



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.

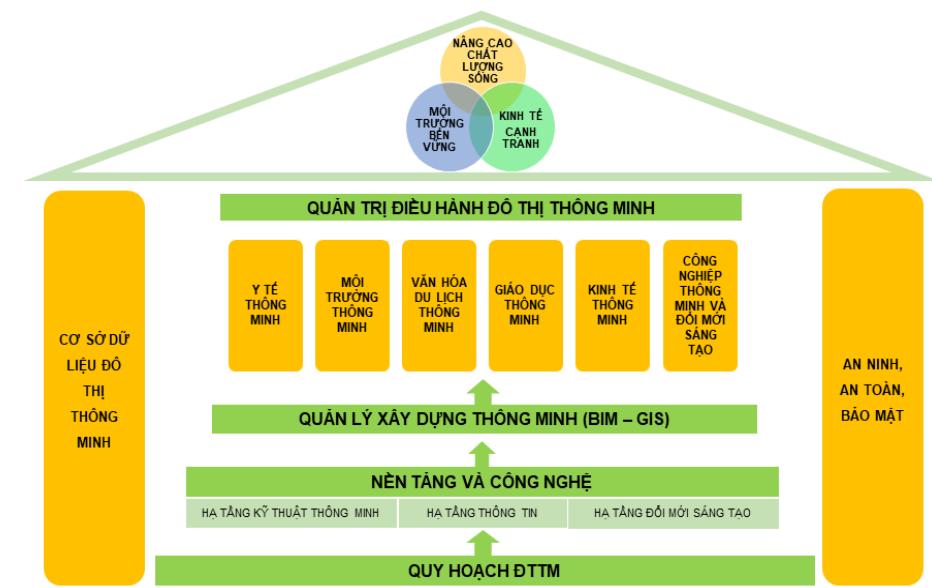


Decree on Smart City Development



2025

The Government passed Decree No. 269/2025/ND-CP dated October 14th, 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.



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

DANANG SMART CITY

g vận động người dân thoát dã các tẩm đậy, khói thông hổ thu i
Thành phố Đà Nẵng 28/10/2025

26°C Mưa nhẹ

Các tính năng hỗ trợ ứng phó thiên tai Xem tất cả

CÁC TÍNH NĂNG HỖ TRỢ ỨNG PHÓ THIÊN TAI TRÊN ỨNG DỤNG DANANG SMART CITY

Công dân số

- Bình dân học AI
- Bản đồ mưa ngập
- Mực nước sông
- SOS
- Theo dõi lượng mưa
- Mực mưa, ngập nước
- Phản ánh góp ý
- Danang AI
- Tìm kiếm
- Nhân sáu
- Ưu đãi
- Xem tất cả

Trang chủ Khám phá Tra cứu Giới thiệu Tài khoản

Chùa Linh Ứng ←

Heavy rain

Rainfall Information

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

Hourly Rainfall Chart

Hour	Highest rainfall (mm)	Hourly rainfall (mm)
0:00	0	2.5
2:00	7.5	1.5
4:00	0	2.5
6:00	0	1.5
8:00	0	1.5
10:00	0	5.5
12:00	0	7.5
14:00	0	2.5
16:00	0	1.5

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

BẢN ĐỒ MƯA NGẬP TP. ĐÀ NẴNG

Bản đồ mưa ngập TP. Đà Nẵng

Để dùng ấn danh để báo cáo ngập ở khu vực Điện Nam Bắc, Điện N

Huế

VIỆT NAM

Điện Thắng Trung, Điện Thắng Trung, Điện Bàn, Quảng Nam

Chú thích bản đồ

SĐT khẩn cấp

Bản đồ Gửi thông tin ngập Yêu cầu cứu trợ Lượng mưa Trạm

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

Current Status Flood ongoing

Emergency Numbers

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

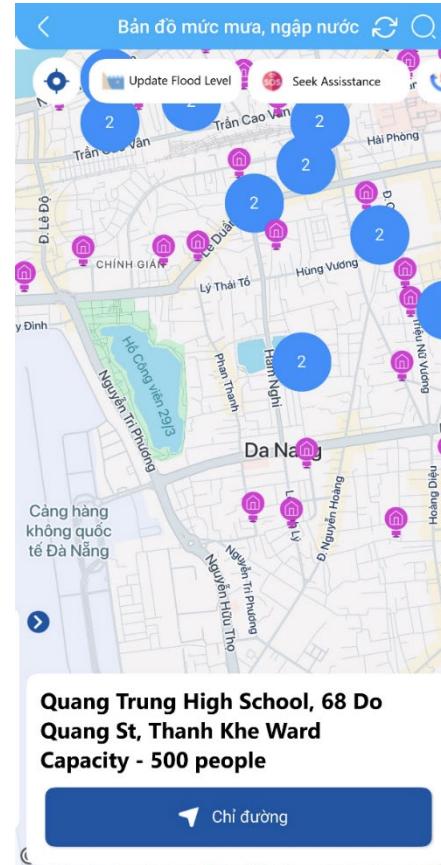
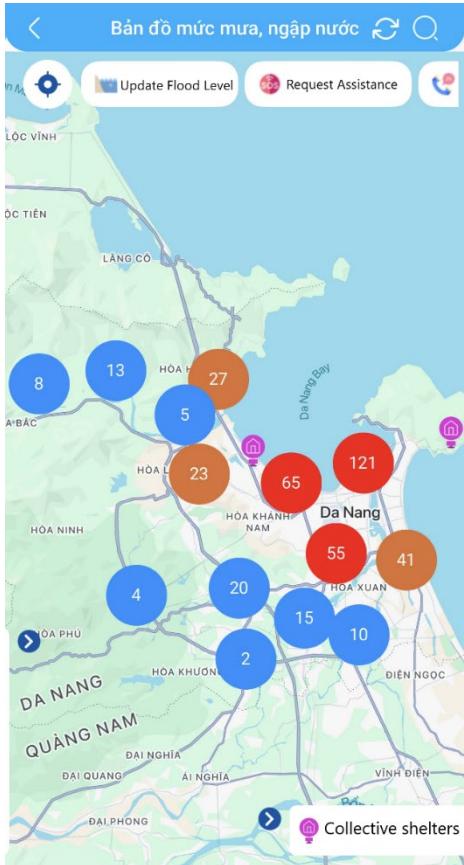
3. Danang Smart City App

Danang Smart City App was launched 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.

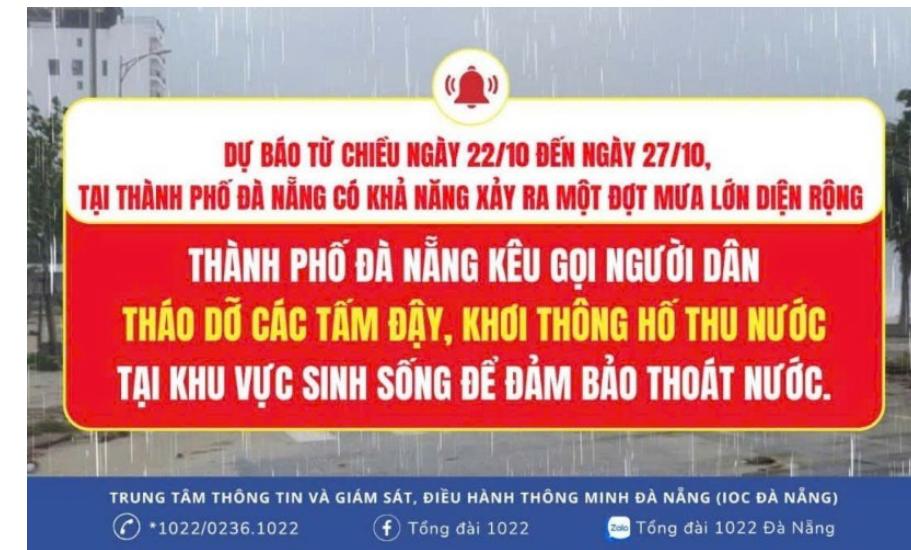


4. An inclusive smart city for the People

- Collective shelters all over the city for everyone in the event of natural disasters.
- Authorities are responsive throughout the process.
- App actively encourages people to contribute to the collective effort in response to natural disasters.



Map for shelters in the city



“From the afternoon of October 22 to October 27, Da Nang City is forecasted to experience a period of widespread heavy rainfall. The Da Nang City government calls on residents to remove drain covers and clear water inlets in their living areas to ensure proper drainage.”



Authorities active in the evacuation effort



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.



Hue Citadel



Aerial view

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 on 28/10/2025



Aerial view on 28/10/2025

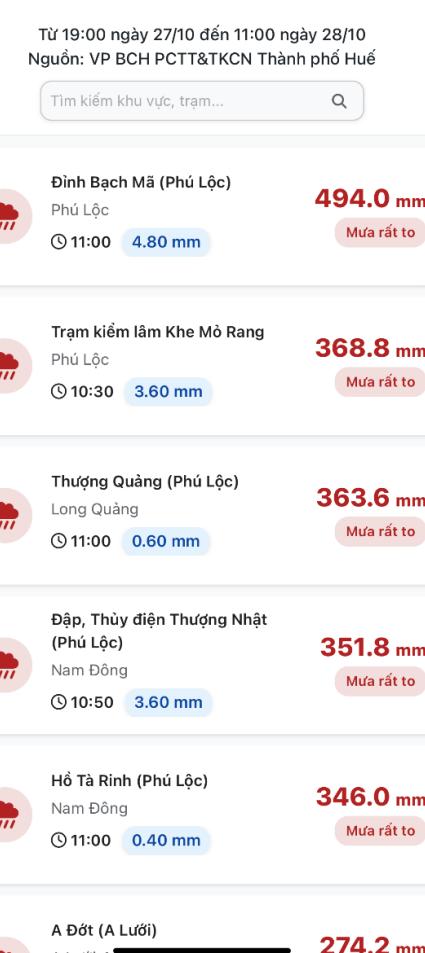
3. Hue-S App

- 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.

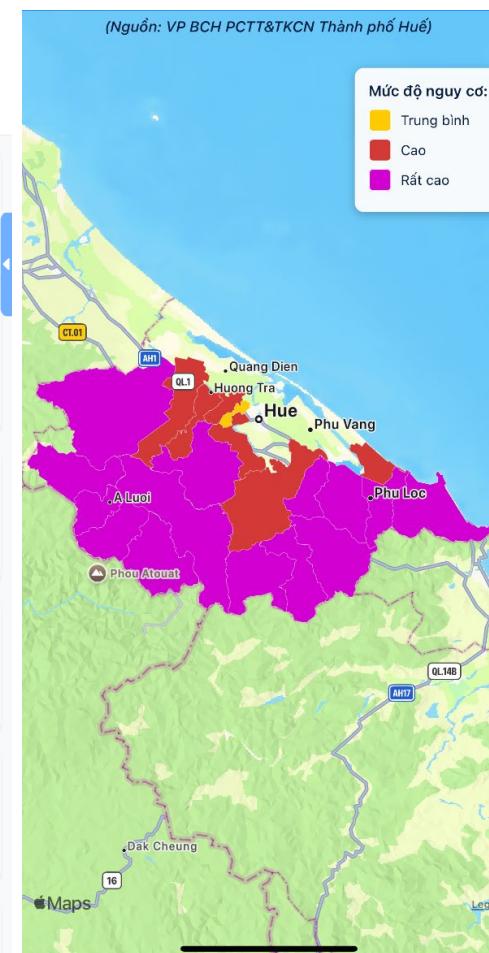
App Interface



Rainfall Data



Landslide Hazards Map



River Level Chart



Hydropower Plant Data

(Nguồn: VP BCH PCTT&TKCN Thành phố Huế)
tháng 10 / tháng 11 2025

Thứ	Thứ	Thứ	Thứ	Thứ	Thứ	Thứ	Thứ
27	28	29	30	31	1	2	3
Thủy điện Hương Điền 57.72m ↓ (Htl) 1804m ³ /s ↓ (Qđi)	Thủy điện Bình Điền 85m ↓ (Htl) 2019m ³ /s ↓ (Qđi)	Thủy điện A Lưới 552.705m ↓ (Htl) 828.66m ³ /s ↑ (Qđi)	Thủy điện Thượng Lộ - - m (Htl) - - m ³ /s (Qđi)	Thủy điện Thượng Nhật - - m (Htl) - - m ³ /s (Qđi)	Thủy điện A Roòng 468.230m ↑ (Htl) 246.09m ³ /s ↑ (Qđi)	Thủy điện Sông Bồ - - m (Htl) - - m ³ /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.





Abstract background featuring four thick, curved bands: a blue band at the top, a yellow band below it, a red band that curves upwards and then downwards, and a dark blue band that curves downwards and then upwards. The bands intersect in the center of the frame.

Thank you!