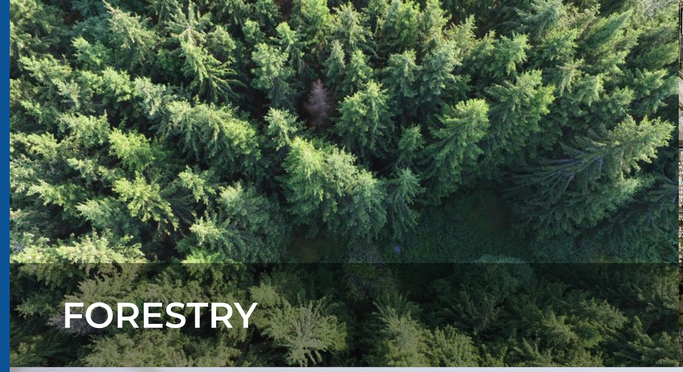
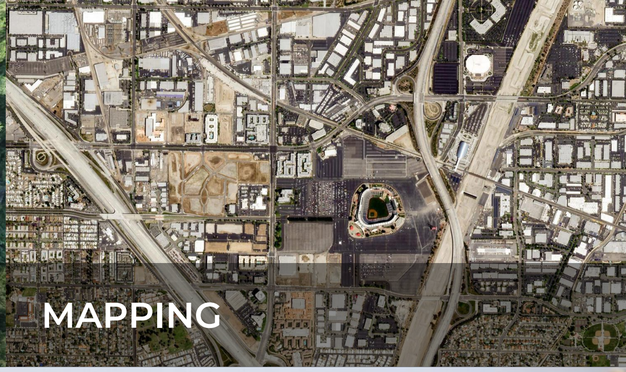
SATY Bief

Implemented Projects

June 2025


FORESTRY

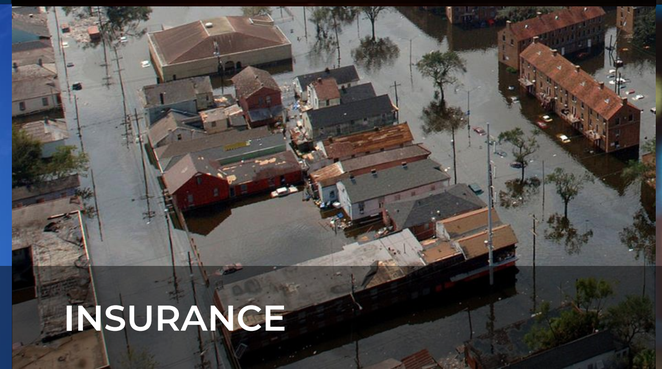

MAPPING

AGRICULTURE

EMERGENCY MANAGEMENT

ENERGY & INFRASTRUCTURE

CIVIL GOVERNMENT


INSURANCE

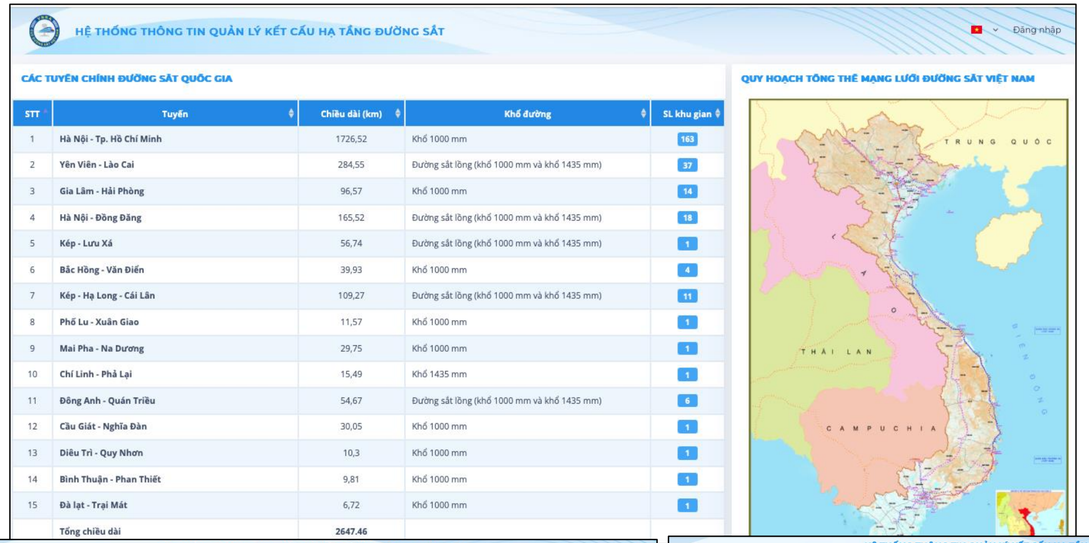
FINANCE & BUSINESS INTELLIGENCE

Build 3D digital map

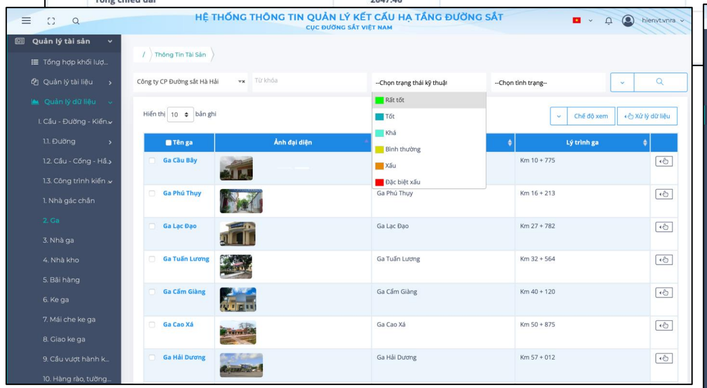
- Client: Telecom corporation in Vietnam
- Region: 74 areas in Vietnam's provinces/cities.
- Object: 3D digital map for telecommunications network planning design
- Technology: GIS, SmartWard3D maps, satellite imagery
- Collect and integrate GIS databases, provide satellite image, build 3D digital maps, build WebGIS to display a combination of 3D digital maps and coverage areas, 2G/3G/4G/5G telecommunication stations.
- Implementation time: 3/2023- 2024

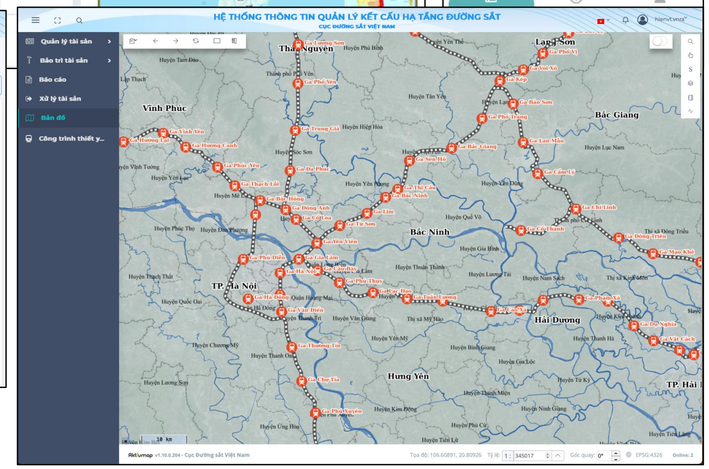
VNRA-MIS Railway Management System

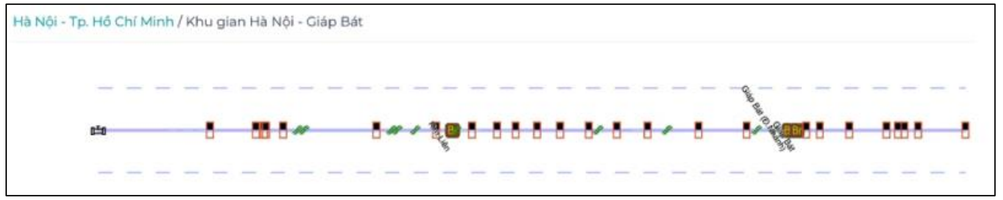
- Customer: Vietnam Railway Authority and 32 units of Vietnam Railway Corporation (VNR)
- Region: Nationwide scale
- Subjects: railway infrastructure assets.
- Technology: GIS, SmartWard
- Collect and integrate GIS databases, import GIS data, build GIS software on the web and mobile.
- Implementation time: 2022- 2024



STT	Tuyến	Chiều dài (km)	Khổ đường	SL khu gian
1	Hà Nội - Tp. Hồ Chí Minh	1726,52	Khổ 1000 mm	163
2	Yên Viên - Lào Cai	284,55	Đường sắt lồng (khổ 1000 mm và khổ 1435 mm)	37
3	Gia Lâm - Hải Phòng	96,57	Khổ 1000 mm	14
4	Hà Nội - Đồng Đăng	165,52	Đường sắt lồng (khổ 1000 mm và khổ 1435 mm)	18
5	Kép - Lưu Xá	56,74	Đường sắt lồng (khổ 1000 mm và khổ 1435 mm)	1
6	Bắc Hồng - Văn Điển	39,93	Khổ 1000 mm	4
7	Kép - Hạ Long - Cái Lân	109,27	Đường sắt lồng (khổ 1000 mm và khổ 1435 mm)	11
8	Phố Lu - Xuân Giao	11,57	Khổ 1000 mm	1
9	Mai Pha - Na Dương	29,75	Khổ 1000 mm	1
10	Chí Linh - Phả Lại	15,49	Khổ 1435 mm	1
11	Đồng Anh - Quán Triều	54,67	Đường sắt lồng (khổ 1000 mm và khổ 1435 mm)	6
12	Cầu Giát - Nghĩa Đàn	30,05	Khổ 1000 mm	1
13	Diêu Trì - Quy Nhơn	10,3	Khổ 1000 mm	1
14	Bình Thuận - Phan Thiết	9,81	Khổ 1000 mm	1
15	Đà Lạt - Trại Mát	6,72	Khổ 1000 mm	1
	Tổng chiều dài	2647.46		

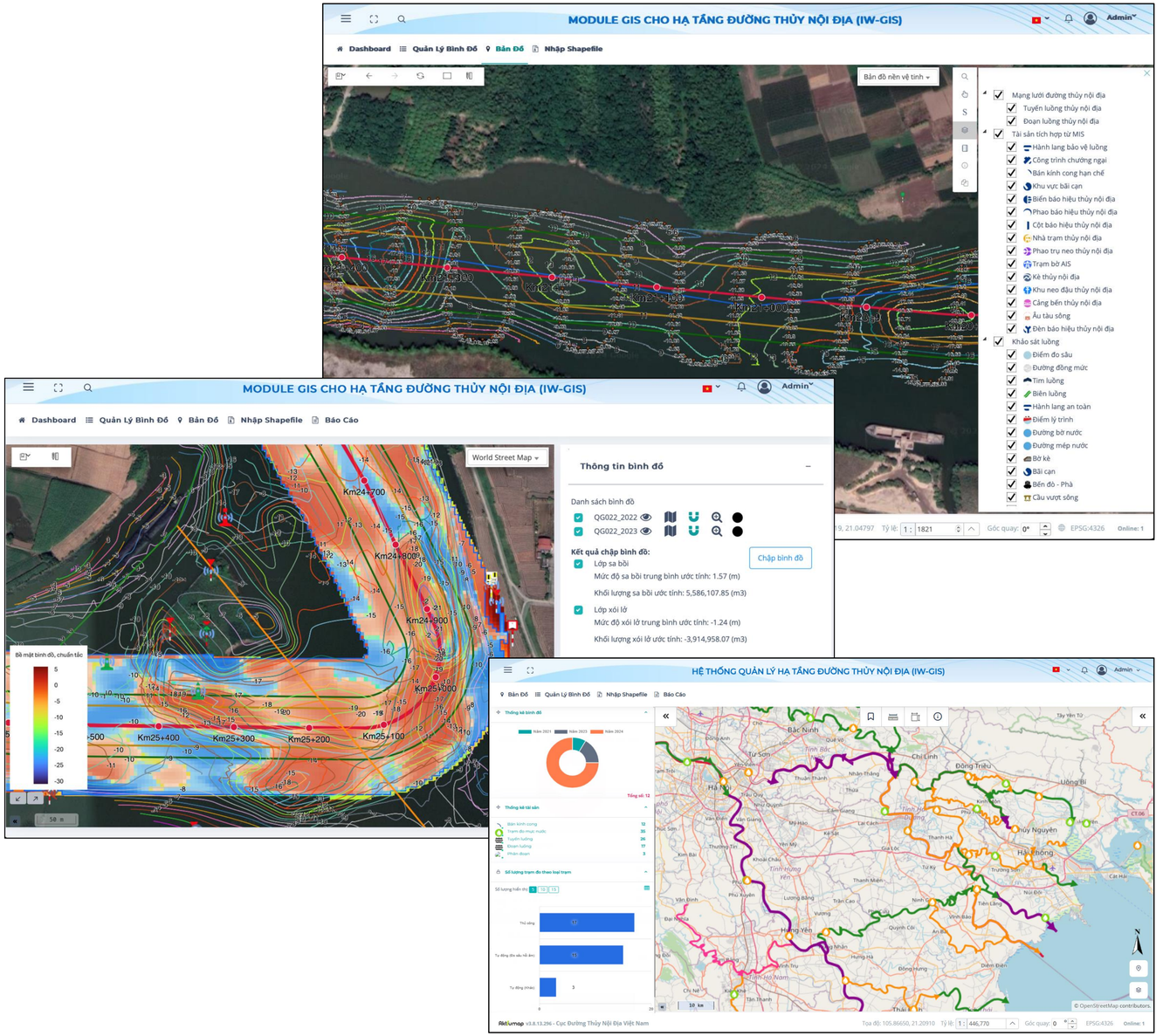






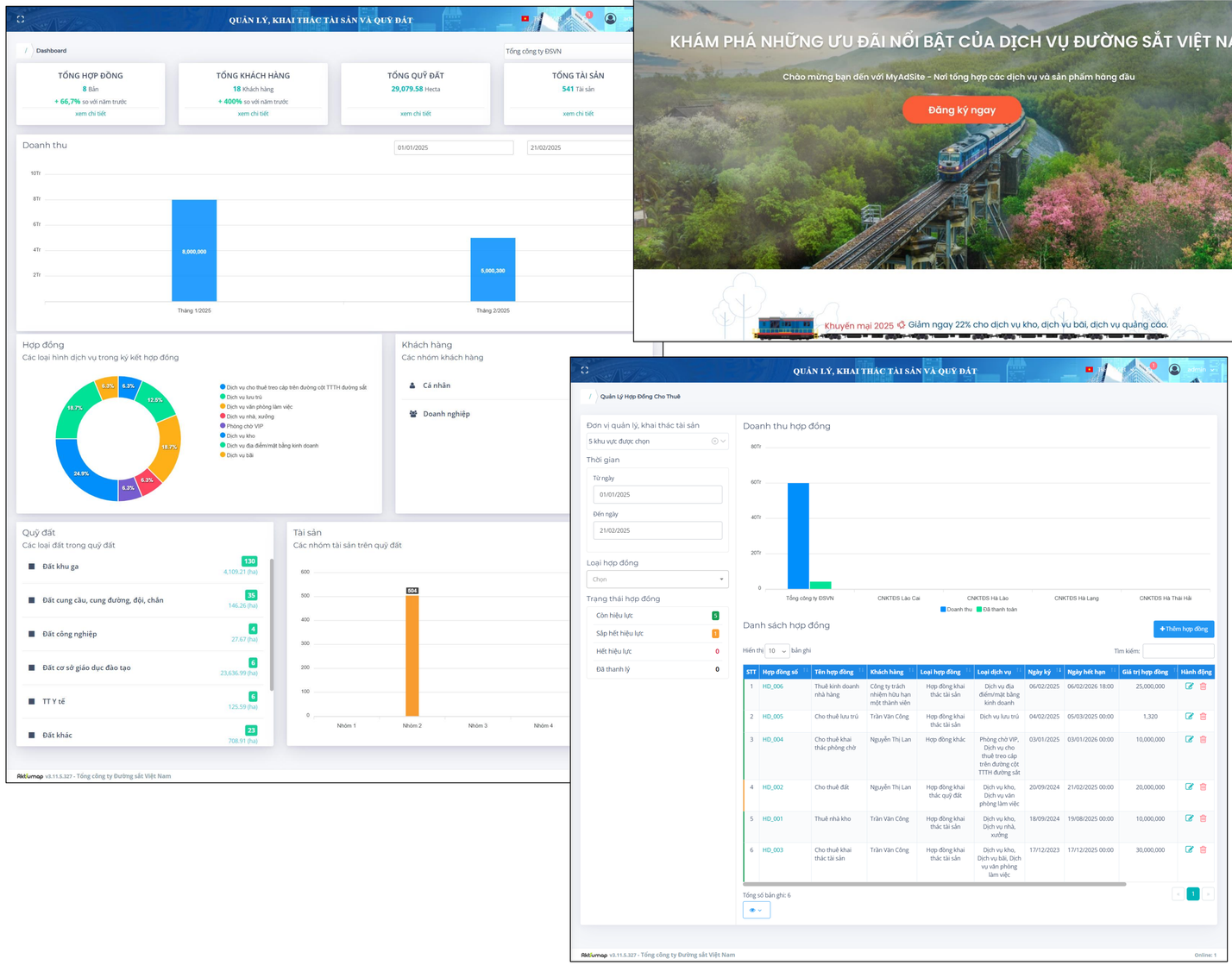
IW-GIS Inland Waterway Management Module

- Client: Vietnam Inland Waterways Administration (VIWA)
- Region: Nationwide scale
- Subjects: waterway infrastructure assets
- Technology: GIS, SmartWard
- Collect and integrate GIS databases, import GIS data, build GIS software on the web.
- Implementation time: 2024



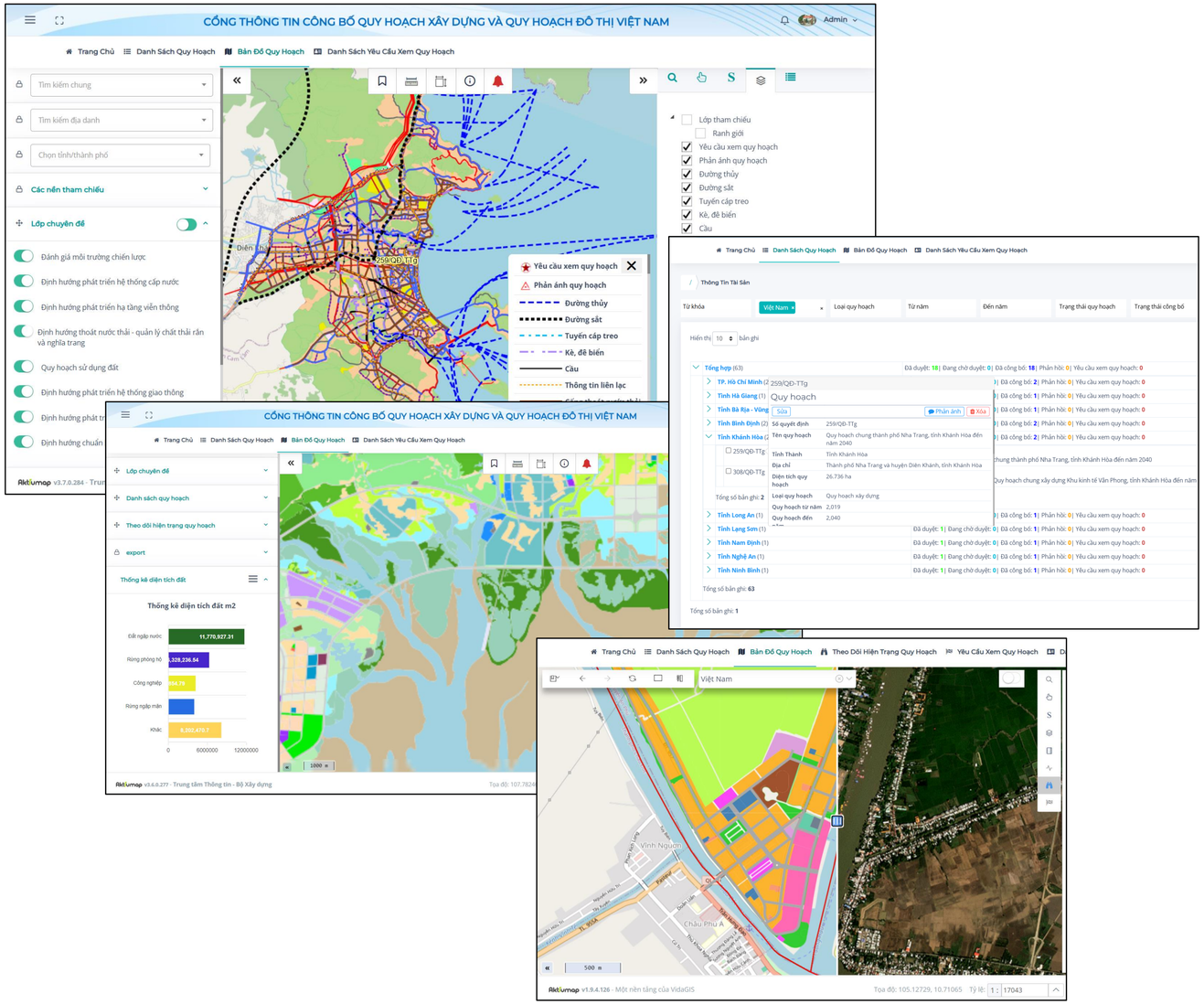
VNR asset and land fund management and exploitation system

- Client: Vietnam Railway Corporation
- Region: Nationwide scale
- Subjects: architectural assets and railway land funds
- Technology: GIS, SmartWard
- Collect and integrate GIS databases, import GIS data, build GIS software on the web.
- Implementation time: 2025



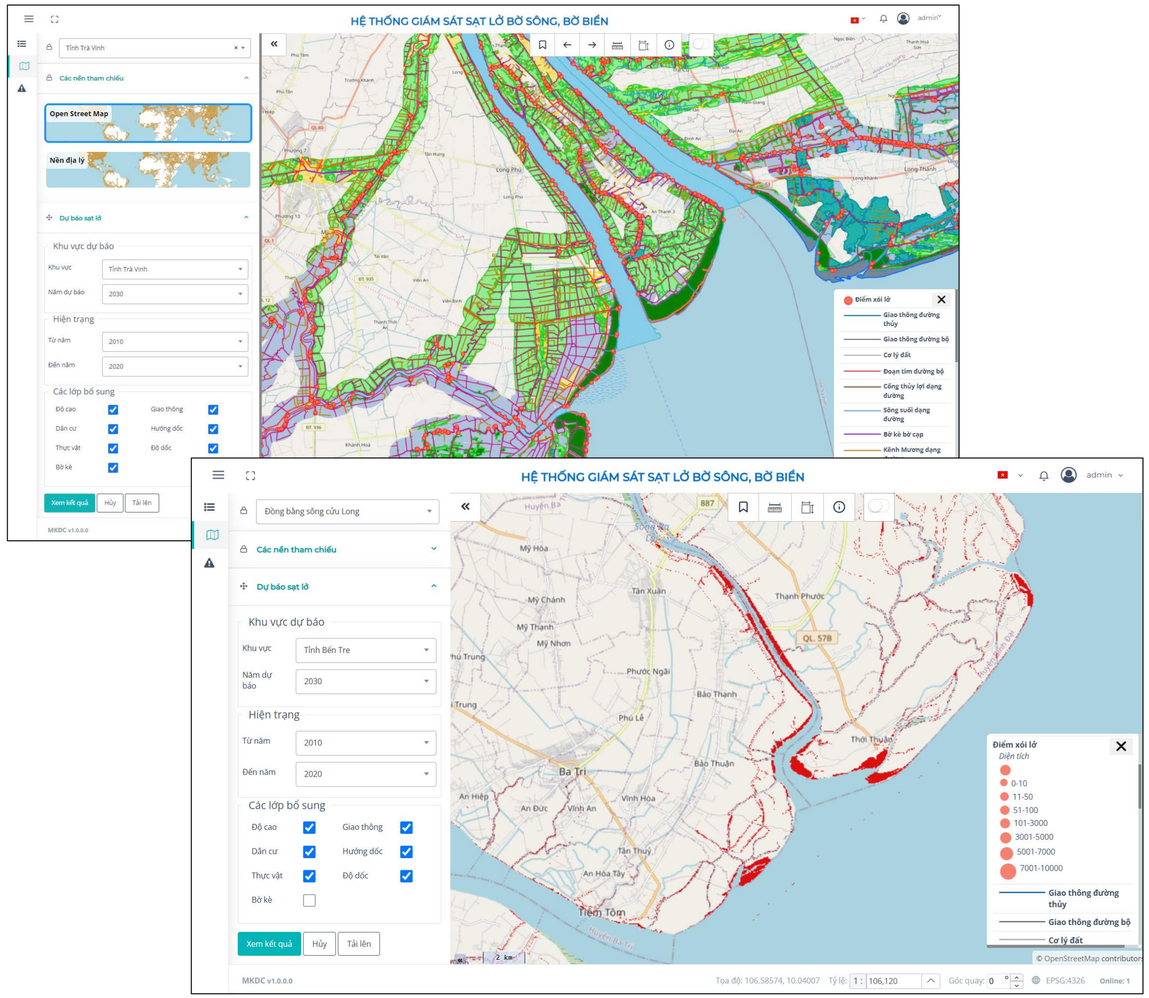
Planning publicity portal

- Investor: Ministry of Construction, Vietnam
- Region: nationwide
- Subjects: Rental of SmartWardsoftware in the publicity of construction planning and urban planning on the Portal of Vietnam Construction Planning and Urban Planning.
- Technology: GIS, SmartWard
- Collecting and integrating GIS databases, building GIS software in publicizing construction planning, urban planning, and building GIS maps
- Annual Rental Service



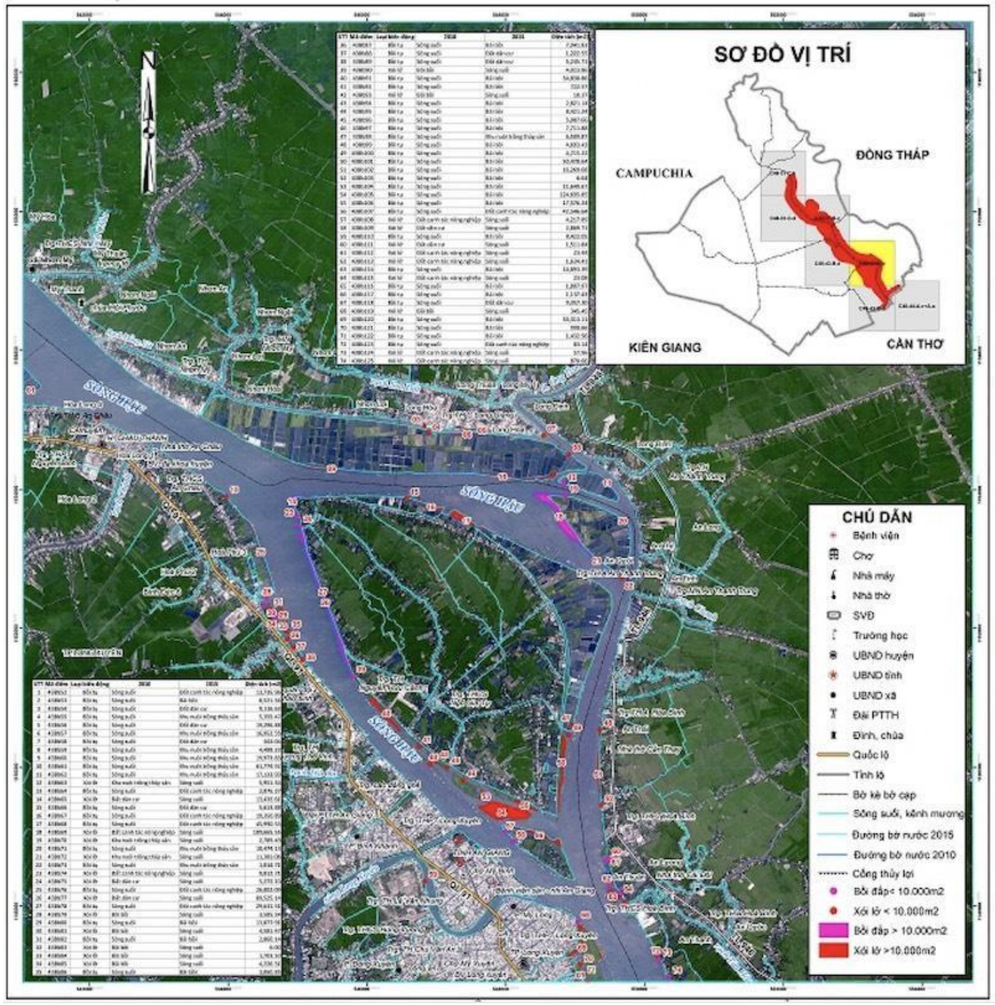
Riverbank and coastal landslide monitoring system

- The Ministry of Natural Resources and Environment is the investor and the World Bank sponsors
- Region: 13 Mekong Delta provinces, Vietnam
- Subjects: riverbank and coastal monitoring solutions
- Technology: GIS, maps, satellite imagery, SmartWard
- Collect and establish a landslide database, build a WebGIS showing the trend of riverbank and coastal landslides in the Mekong Delta region by 2030.
- Implementation time: 2/2023- 2024



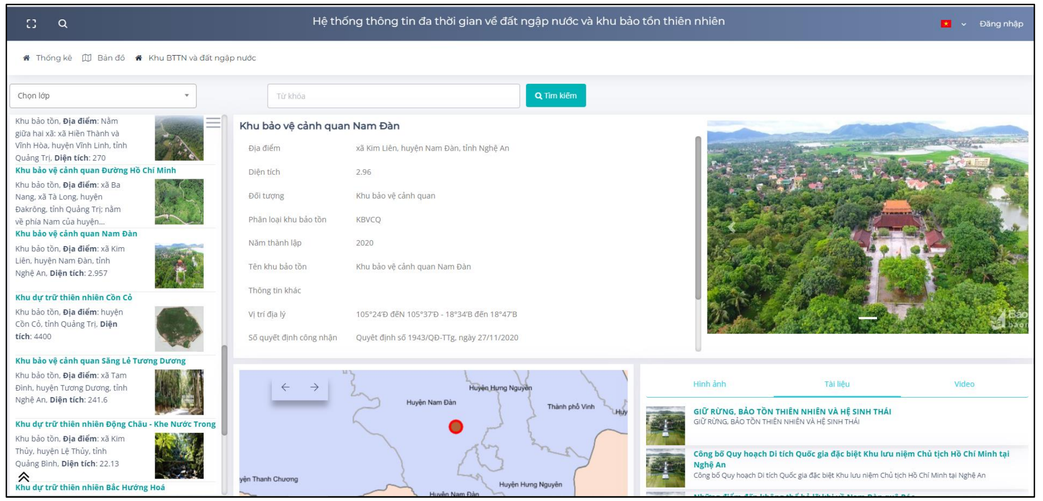
Monitoring riverbank and coastal landslides using remote sensing technology

- The Ministry of Natural Resources and Environment is the investor and the World Bank sponsors
- Region: 13 Mekong Delta provinces
- Objects: coastal riverbank landslides in the period 2005, 2010, 2015 and present
- Technology: using SPOT 6/7 high-resolution remote sensing images and GIS technology to interpret remote sensing images
- Drawing internal and external industries, establishing maps of the current situation and fluctuations in 4 periods and 3 stages.
- Implementation period: 2019-2021



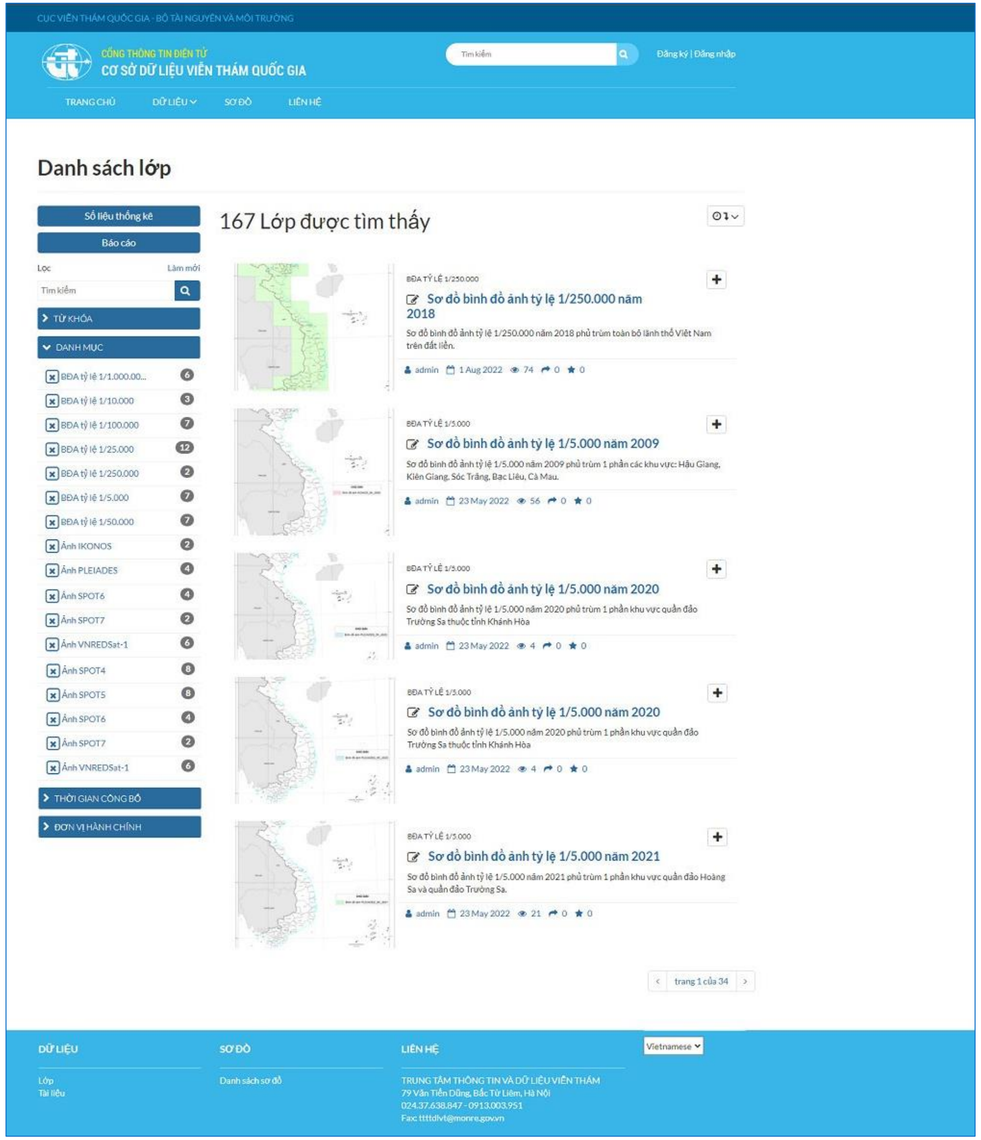
Wetland and nature reserve management software

- Client: Nature and biodiversity conservation Agency
- Region: nationwide.
- Subjects: Povide GIS software for wetland management and nature reserves.
- Technology: GIS, SmartWard
- Collect and integrate GIS databases, remote sensing images, build GIS software to manage wetlands and nature reserves.
- Implementation time: 2022



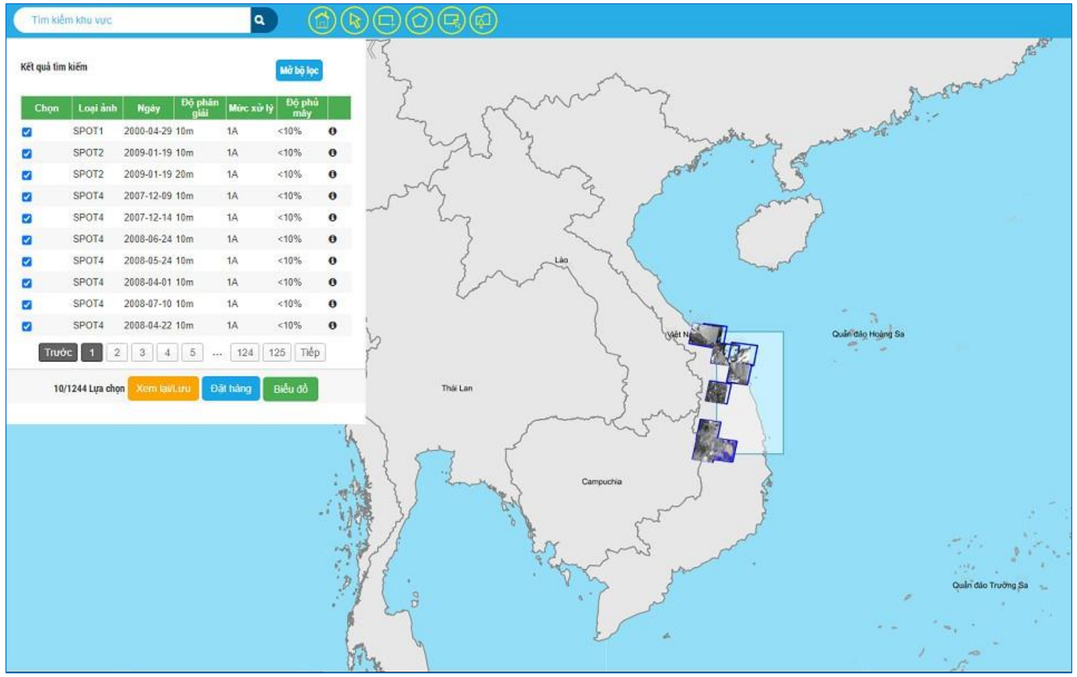
Remote sensing image publication software

- Client: Department of National Remote Sensing, Vietnam
- Region: nationwide
- Object: Provide GIS software for remote sensing image publication
- Technology: GIS
- Building and managing GIS databases, building GIS software for remote sensing image publication
- Implementation period: 2020-2021



Remote sensing image search and ordering software

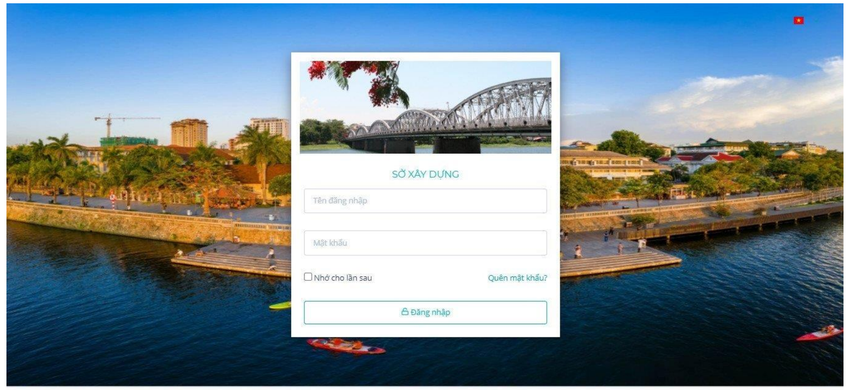
- Client: Department of National Remote Sensing, Vietnam
- Region: nationwide
- Object: Provide GIS software for remote sensing image lookup
- Technology: GIS
- Building and managing GIS databases, building GIS software for remote sensing image lookup
- Implementation period: 2019-2020

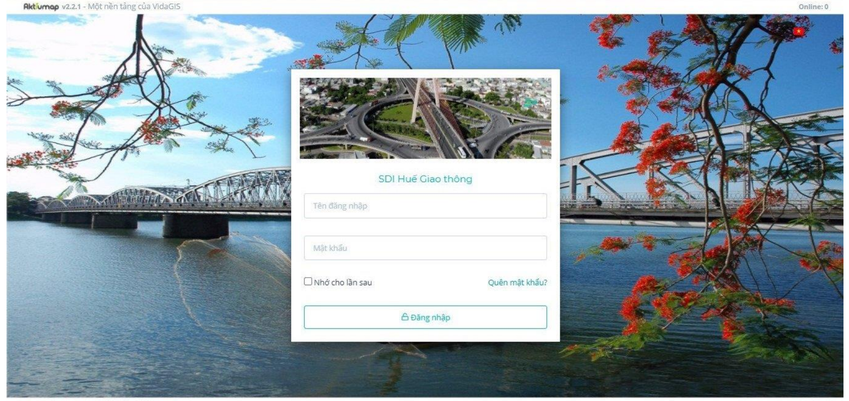


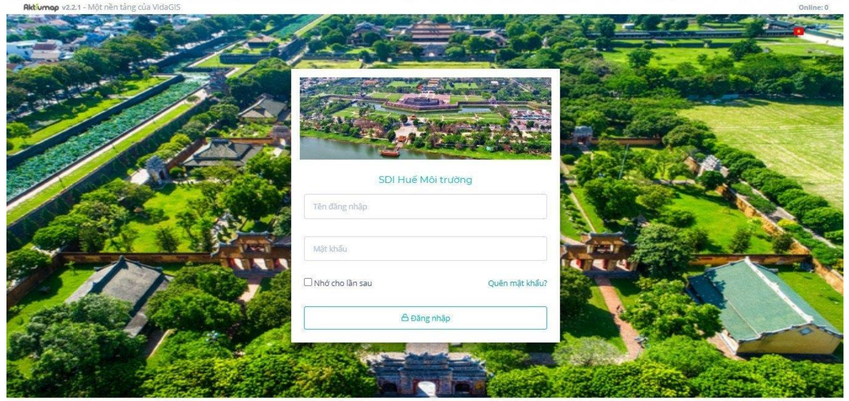
State-level scientific research project HUE SDI

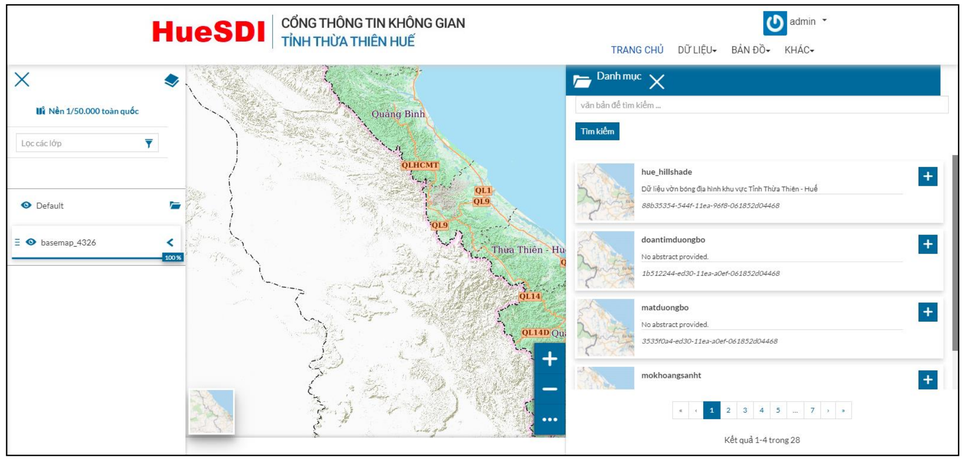
- Under the national key science and technology program in the 2016-2020 period: "Technological research and development of information technology products for e-Government"
- Title: Research and construction of spatial data infrastructure (SDI) for urban planning, management and development - Pilot application in Thua Thien Hue province
- Technology: GIS, SDI, SmartWard
- Implementation period: 2019-2021

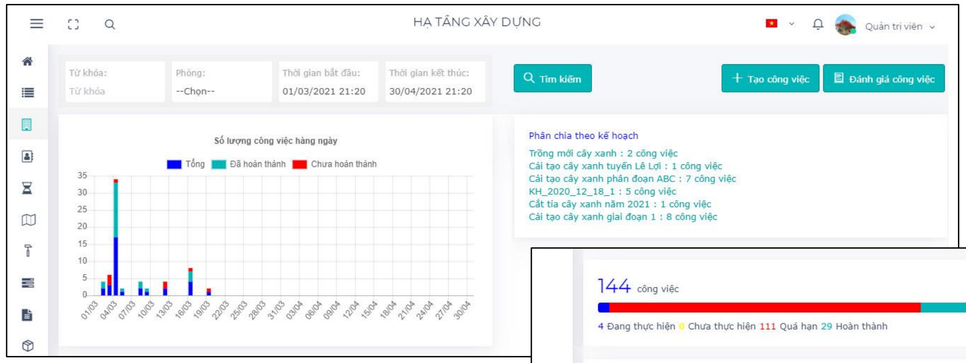
SDI system for Hue smart city

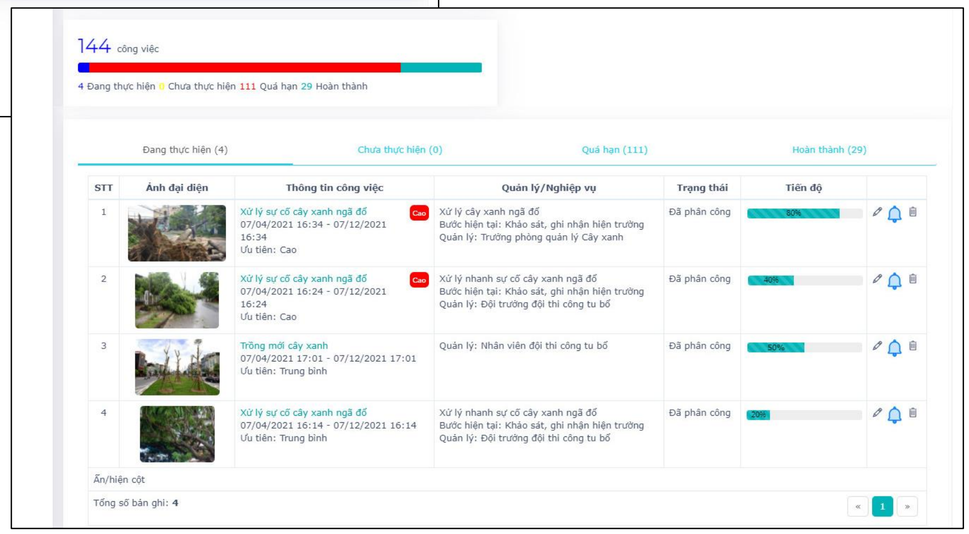










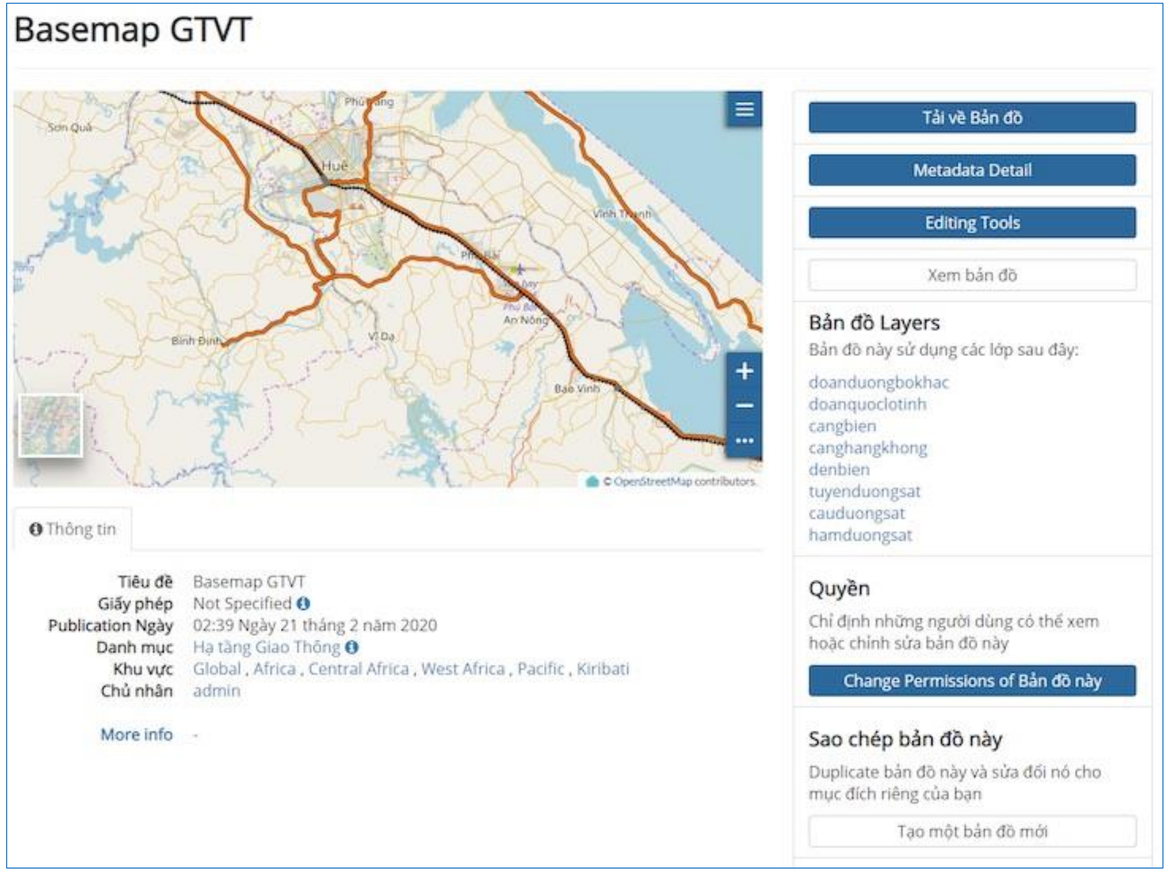


ICT Projects

- SAWACO is the investor, ADB loan, 25 mil USD
- Area: the whole of Ho Chi Minh City
- Users: All departments of SAWACO, 3 Enterprises,
- 9 companies and 2 sewerage plants
- Objects of management: infrastructure, equipment, machinery, incidents, tasks, processes, technical documents, material warehouses, plannings and plans
- Technology: GIS, SmartWard asset management
- Building and integrating GIS databases, designing and deploying AMS software, integrating GIS, AMS with CRM, SCADA, Hydraulic
- Implementation period: 2018-2021

Build a background map database

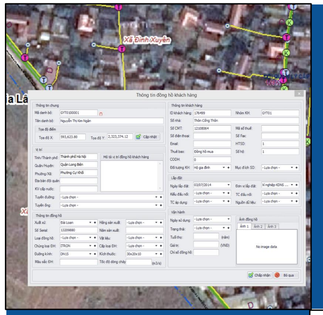
- Investor: Ministry of Transport
- Region: nationwide
- Object: build a national background map database based on the national topographic map 1/50,000. Design the data structure of transport infrastructure.
- Technology: integrated GIS technology, data processing, data standardization
- Integrating GIS databases, building a spatial data infrastructure system for the Ministry of Transport (expanded)
- Implementation time: 2016-2019



Transport infrastructure GIS database design

- Hai Phong Department of Transport is the investor, WB sponsors
- Area: Hai Phong
- Object: Design of transport infrastructure data structure, design of GIS system for the operation and maintenance of Hai Phong transport infrastructure
- Technology: GIS technology, integration, data processing, data standardization
- Implementation time: 2015

Other projects



WAMS – HANOI WATER SUPPY

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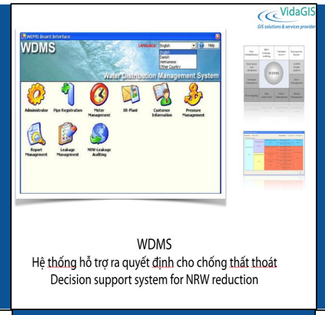
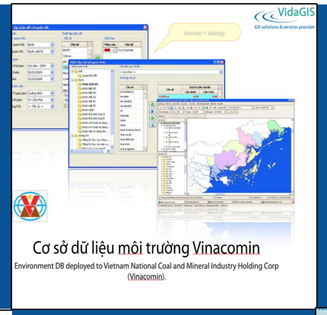


WDMS
Hệ thống hỗ trợ ra quyết định cho chống thất thoát
Decision support system for NRW reduction

WDMS – NONREVENUE WATER

FOR MALAYSIA - SERAMBAN.



Cơ sở dữ liệu môi trường Vinacomin
Environment DB deployed to Vietnam National Coal and Mineral Industry Holding Corp (Vinacomin).

ENVIRONMENT DB

ENVIRONMENT & GEOLOGY DB FOR VINACOMIN.

SATY

FOREST LAND EVALUATION SYSTEM

FOREST DEPARTMENT OF VIETNAM.

WESMAPPER

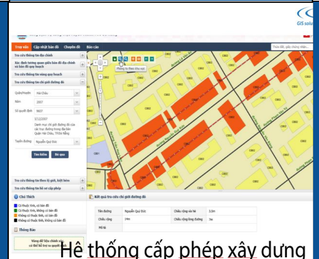
NATIONAL DB FOR WATER & SANITATION

FUNDED BY UNICEF

WESMapper
National database for rural water supply and sanitation
Success deployed to Unicef, Cerwass and 63 provinces in Vietnam

EGOV WORDBANK

Egov project fund by WB for Danang city: Construction permit, Waste, Light



Hệ thống cấp phép xây dựng
CONSTRUCTION PERMIT based GIS: a service of e-Gov

WAMS – BINHDINH WATER SUPPY

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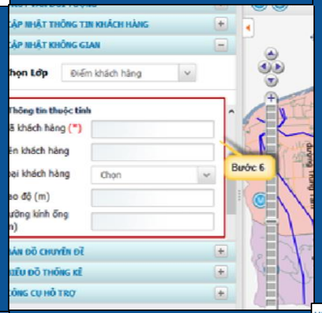
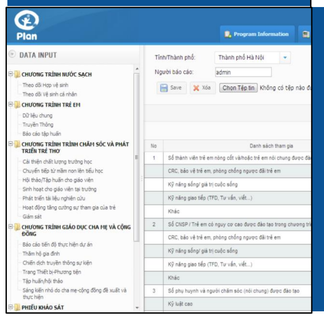


MEKONG RIVER WATER QUALITY MONITORING

FOR MONRE.



M&E SYSTEM FOR PLAN

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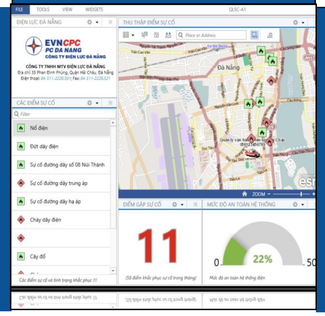
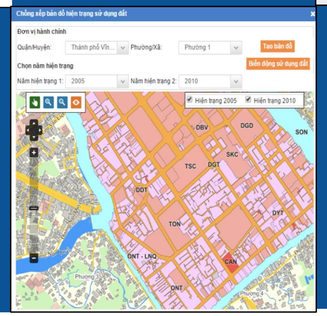


ELECTRICITY NETWORK

FOR EVN - CPC



CADASTRAL DB & PLANNING MAP

FOR VINHLONG PROVINCE

TRANSPORTATION SYSTEM

FOR HAIPHONG

FUNDED BY WORDBANK

Thank you!

- GIS solution
- Map
- GIS database
- SDI
- SmartWard
- Satellite image
- Digital elevation model

planet.

Synspective

INTERMAP