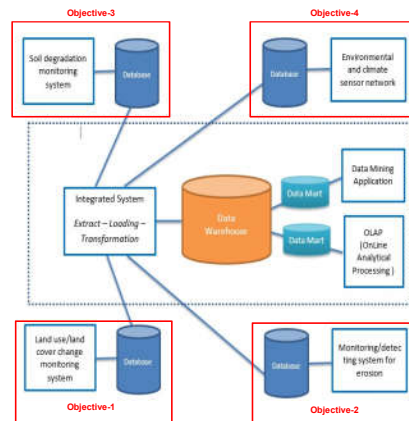


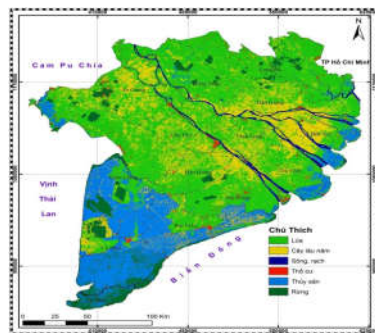
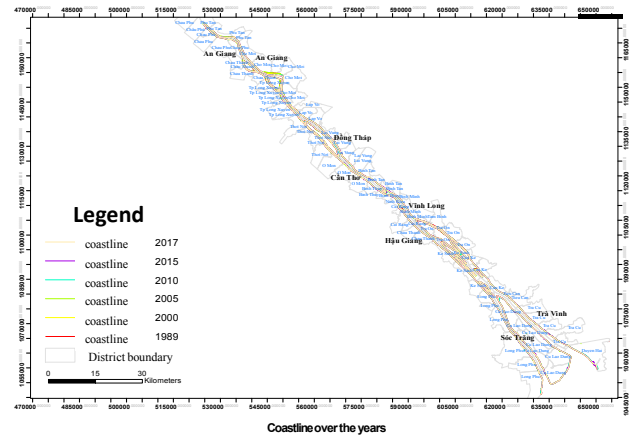
1	<b>General Title</b>	<b>Water and Land Resources Monitoring</b>
2	<b>Core Members</b>	CTU: Vo Quang Minh (Project Leader), Vo Quoc Tuan, Nguyen Thi Hong Diep, Tran Cong An, Nguyen Thai Nghe, Pham Thanh Vu, Truong Chi Quang, Thai Thanh Du, Nguyen Thi Ha Mi Japanese Universities and Companies: Takashi Gomi (TUAT), Tasuku Kato (TUAT), Kenichi Tatsumi (TUAT), Megemi Yamashita (TUAT), Shinji Fukuda (TUAT)
3	<b>Duration</b>	January 2018 – (3 years)
4	<b>Main Objectives</b>	Developing the integration database system for water and land resources in the Mekong delta of Viet Nam

5	<b>Focal Points</b>	<ul style="list-style-type: none"> <li>- Development of Land use/land cover change monitoring system using remote sensing data</li> <li>- Development of a monitoring/detecting system for erosion (coastal, river) in the Lower Mekong River</li> <li>- Development of soil degradation monitoring system</li> <li>- Developing an environmental and climate sensor network to support agriculture and aquaculture development</li> <li>- Creating an integrated information system for Environment</li> </ul>
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**METHODS**



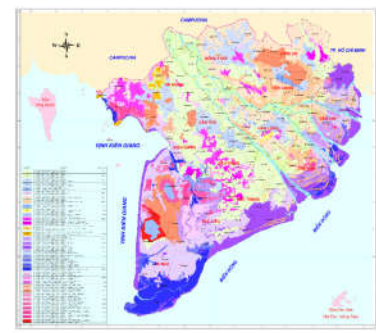
**RESULTS**



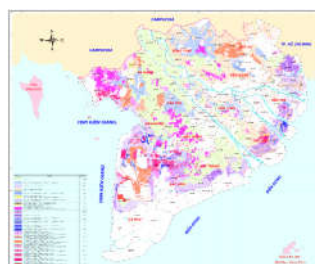
Land cover map in the Mekong Delta

**The major soil constraints for rice cultivation**

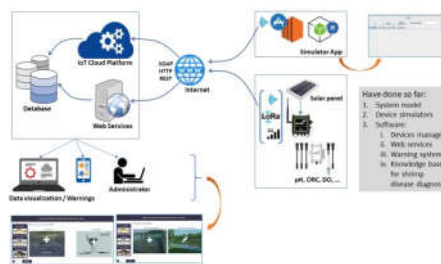
Modirs	Soil fertility constraints	hectare
p	low available P	327,099.4
S	Strongly salinity of subsols	327,099.4
a	Acid soil, iron, aluminum toxicity	323,183.1
r+	High phosphorus fixation and high Fe toxic potential	231,628.0
c	Depth actual acid sulfate in subsoil	198,914.3
c'	shallow actual acid sulfate soils	159,619.2
s'	slightly salinity in subsols	156,840.9
v	Cracking clays soils when working the soil, we meet obstacle because soil usually flood out, rice root can be broken when soil is dry	102,027.1
f-	Potential acid sulfate in subsoil	72,757.0
i	High phosphorus fixation	69,944.7
f	Shallow potential acid sulfatesoils	28,716.8



Map of soil fertility distribution for agriculture in the Mekong Delta in 2020



Map of obstacles for rice cultivation in the Mekong Delta



Water Environment Monitoring System



Interface to view real-time data of the device

6	<b>Comments (if any)</b>	This research still continues towards finalizing papers to submit Journals.
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