Challenge to Change

Corporate voyage towards a CCA/CCM-centered business strategy





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Who we are

Kokusai Kogyo is an engineering consulting company based on geo-spatial information technology

Solutions:

■ Green Energy

■ Disaster Risk Reduction

■ Environmental Protection

■ Infrastructure

Marketing and Location Information services and etc.

Founded: 1947

Net Asset Value (consolidated): 201 mil USD

Annual Sales (consolidated): 433 mil USD

Employees (consolidated): 2,300



Our wake-up call

Three connected global agendas were adopted in 2015

- Sendai Framework for Disaster Risk Reduction 2015-2030
- Sustainable Development Goals (SDGs)
- Paris Agreement (COP21)

Kokusai Kogyo engaged via

UN Office of Disaster Risk Reduction (UNISDR)

Private Sector stakeholder input into Sendai Framework formulation process Private Sector Alliance (ARISE)

UN Global Compact
Caring for Climate Initiative

- COP21

World Economic Forum
Climate CEOs Initiative

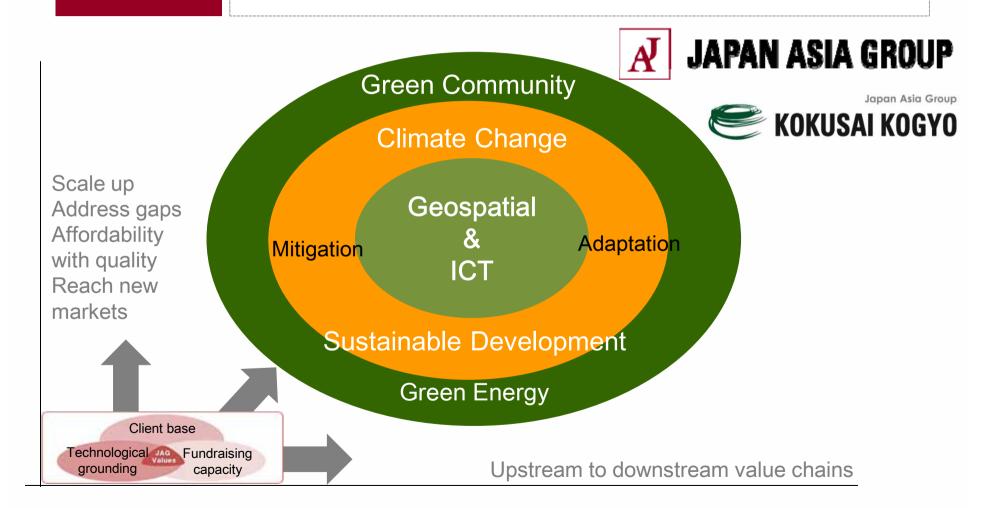




A new guiding vision

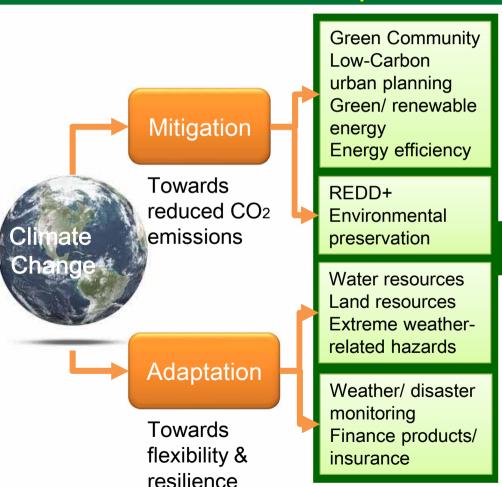
JAG Mission

"Save the Earth, Make Communities Green"



Towards a CC-compatible strategy

Climate Change action requires our core strengths - disaster risk reduction, environmental protection, green energy, and so on

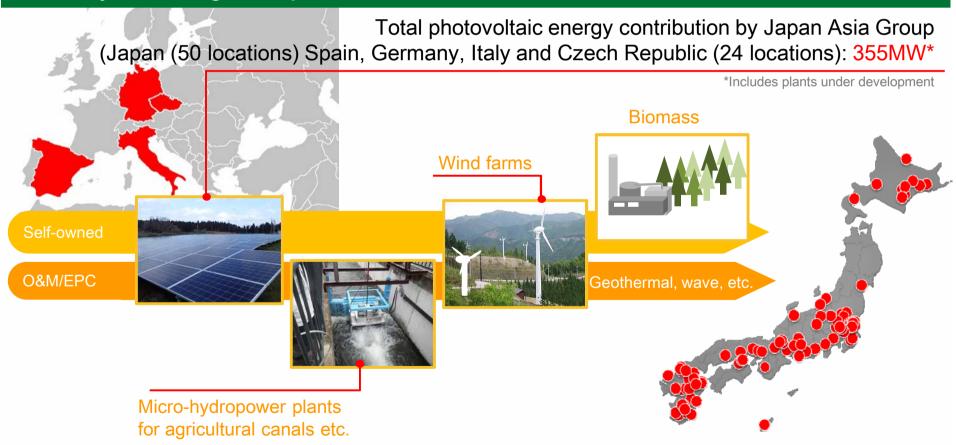


green energy, and so on			
		Field	Solutions
Energy	Low-carbon urban		Real estate
	planning		Smart Community
	Green Energy	Solar	Plant operation, O&M
		Wind	Research & consulting
		Small hydropower	Hardware development
		Biomass	Research & consulting
		Other (geothermal, wave)	Research
	Energy efficiency - LEDs		Consulting
	Forestry		Rejuvenation, reforestation
Spatial	REDD+		Forest inventory
			Policy consulting
	Water resources/ flow		Consulting
Emuiron.	analysis		
Environ-	Flood management hardware		Planning & design
ment	/		High tide/ flood modeling
Infra- structure	Riverine /coastal shore		DRMlanning
	Islands & sea level rise		Research & consulting
	Slope management/		Research & consulting
	landslides		
	Flood management		
	Remote sensing		Research
Disaster		sor networks	Research & information
Risk	Dynamic/multihazards		
Reduction	III	eorological	Information
	data/analysis		
Ri		k analysis	Research & consulting

Geospatial information for CC Action

Geospatial information as bridge between information and user:

- ✓ Identifying potential and directing self- and client investment to CCM
- ✓ Early warning and prediction as CCA



Real-time warning systems - e.g. landslides

For 'known risk' zones

High-tech monitoring using GPS sensors, automatic millimeter-level XYZ displacement detection, technicians monitoring 24/7

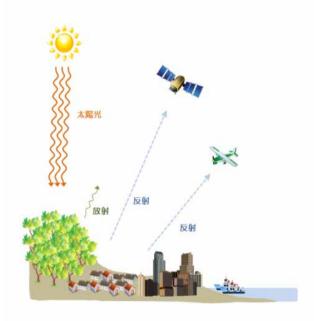


For 'unforeseen' risks

Prediction and early warning of landslides, even in historically 'safe' zones; based on analysis of underground water flow using real-time/predictive rainfall data plus GIS geology/topology layers



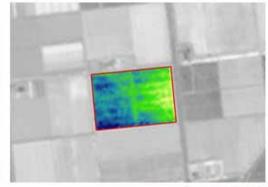
Remote Sensing and GIS for Agriculture



Satellite, aerial, and drone imagery are used to monitor and analyze field conditions realtime, enhance agriculture under extreme weather conditions, improve quality and yield, reduce labor and costs







Growth analysis Poor

Good

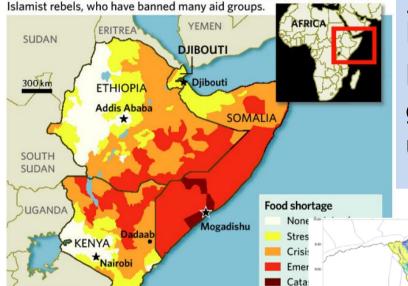
Our role and challenge:

- ✓ Innovating towards affordable geospatial information-based solutions without sacrificing quality and accuracy
- ✓ Identifying and addressing gaps in our line-up of solutions

Water resource – drought-prone areas

Somalia facing famine crisis

The drought in the Horn of Africa has created a triangle of famine where the borders of Ethiopia, Kenya and Somalia meet. The UN believes tens of thousands already have died in Somalia in areas held by Al Qaeda-linked



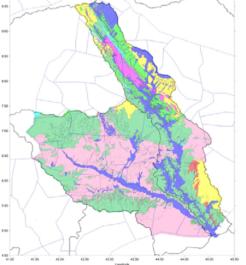
2011 Somalia faced worst drought in 60 years; many refugee camps appeared in Ethiopia and Kenya

Project identified and developed groundwater source >500 meters deep for use by community and refugee camps

New groundwater well



Blue and green show higher potential of groundwater existence







BRINGING A SUSTAINABLE FUTURE ONE STEP CLOSER KOKUSAI KOGYO THROUGH GEOSPATIAL INFORMATION TECHNOLOGY

