How MSDI could contribute to UN Sustainable Development Goals
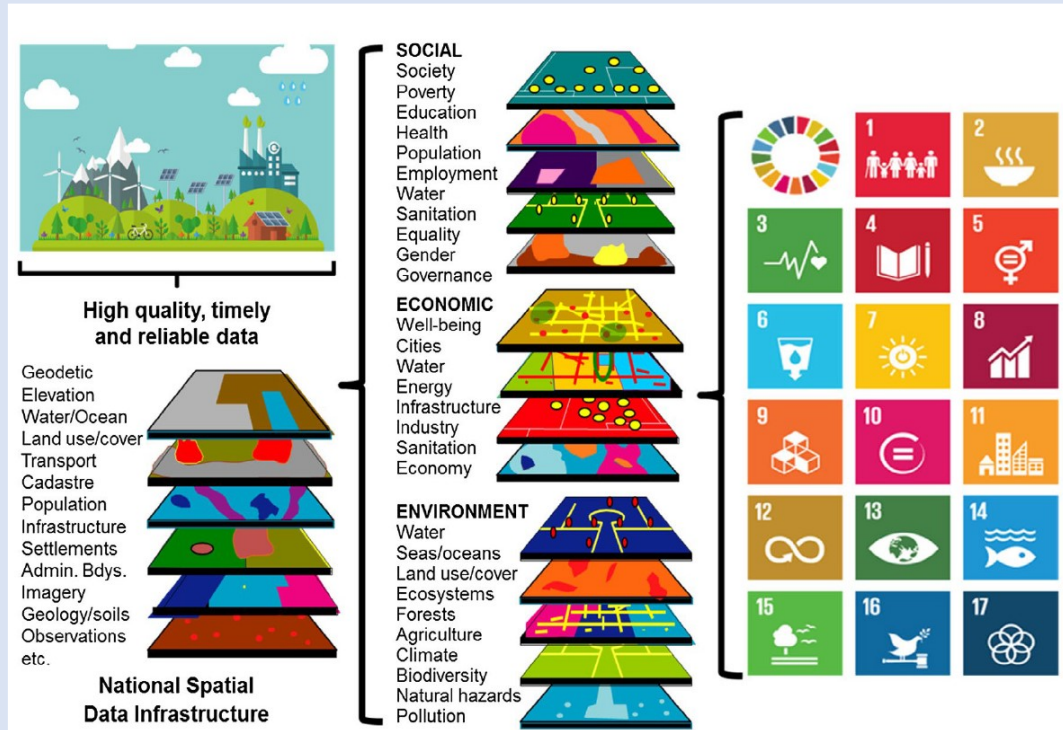

Figure 4. Extending fundamental geospatial data themes within the National Spatial Data Infrastructure (NSDI) to accommodate the SDGs and targets by means of the global indicator framework.

Potential contributions

- Sea Level Rise

- Sea Temperature

- Coastal zone mapping data
  (LiDAR, Earth Observation/Remote Sensing Data)
  - Change detection
  - Erosion
  - Infrastructure development

- …and many more

Example: Sea Level Rise

	1 No Poverty	2 Zero Hunger	3 Good Health and Well-being	4 Quality Education	5 Gender Equality	6 Clean Water and Sanitation	7 Affordable and Clean Energy	8 Decent Work and Economic Growth	9 Industry, Innovation and Infrastructure	10 Reduced Inequalities	11 Sustainable Cities and Communities	12 Responsible Consumption and Production	13 Climate Action	14 Life Below Water	15 Life on Land	16 Peace, Justice and Strong Institutions	17 Partnerships for the Goals
Addresses				*		*	*		*		*						
Bldgs and Settlements	*		*	*		* MSDI	*		*		*	*	*	MSDI			
Elevation and depth	*	*	*			*	*				*		*	*	*		
Functional Areas	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Geographical Names	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Geology and Soils		*	*			*	*	*	*		*	*	*	*	*		
Land Cover/Land Use	*	*	*		*	*	*	*	*		*	*	*	*	* MSDI		
Land Parcels	*	*		*					*		*						
Orthoimagery		*				*			*		*			*	*		
Physical infrastructure			*	*		*	*		* MSDI		*				MSDI		
Population distribution	*	*	*	*	*	*	*	*	*	*	*	*	*	*	* MSDI	*	*
Transport Networks		*	*					*	*		*						
Water		*	*			* MSDI	*		*		*	*	*	*	*		
Global Geodetic Reference Framework		*				*	*	*	*	*	*	*	*	*	*	*	

IHO — International Hydrographic Organization