

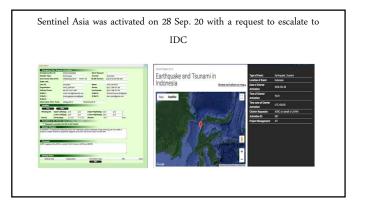


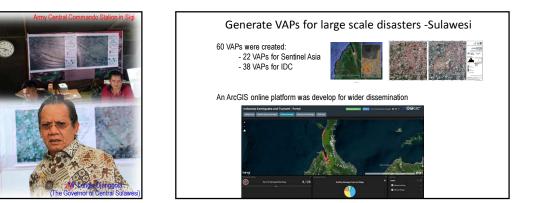
Value Added Product: Earthquake included Landslide in Hokkaido in Sept. 2018



	A 7.5 magnitude earthquake struck Sulawesi		
Earthquake in	on 28 Sep. triggering a tsunami with 3m;		
Sulawesi	 At least 844 people lost their lives and displacing 50,000 people; 		
Indonesia,	The worst affected areas were the city of Palu		
Sep. 2018	with 300,000 inhabitants;		



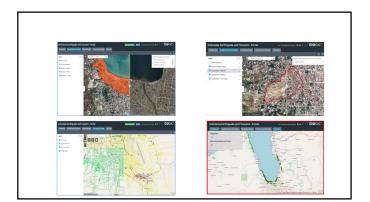


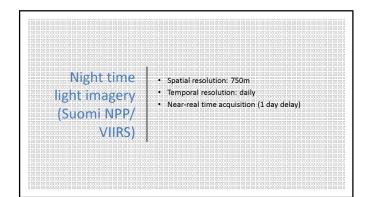


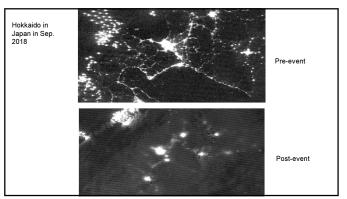
Coordination for dissemination of VAPs

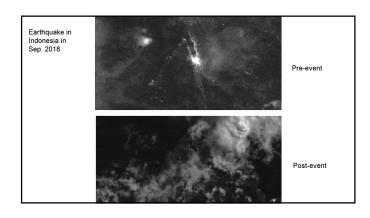
- Constant coordination with local partners (LAPAN, BNPB, Public Works, Poso Energy etc.)
- Product dissemination to local government (Governor, Indonesian Army etc.)

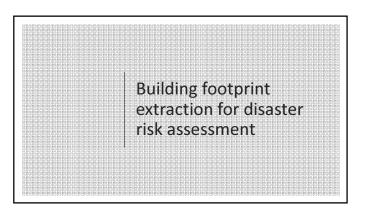


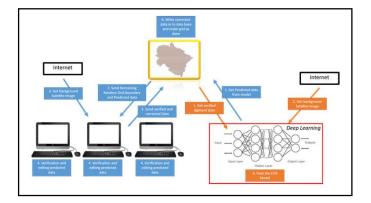




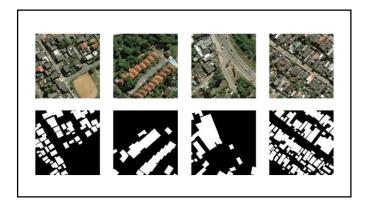


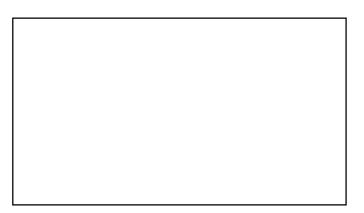


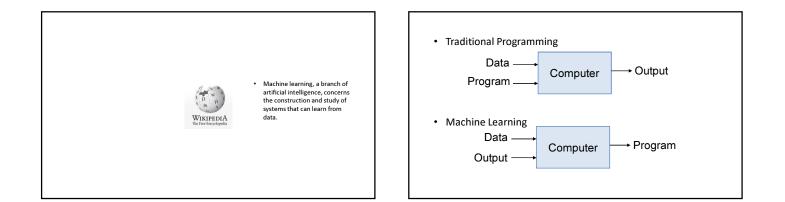


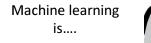


Population Mapping Using Machine Learning





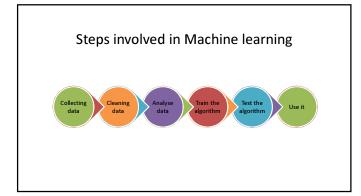


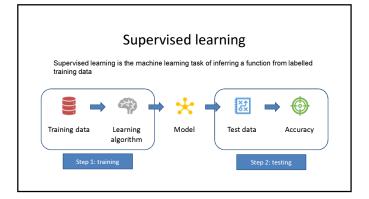


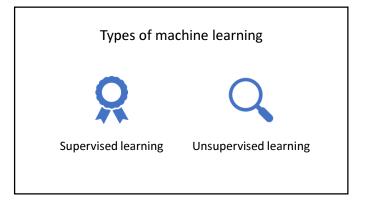
• Machine learning is to let computer predict something, unknow things or events.

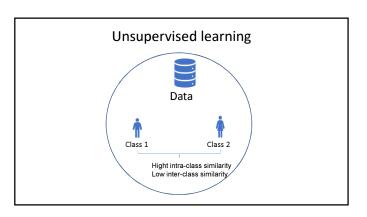






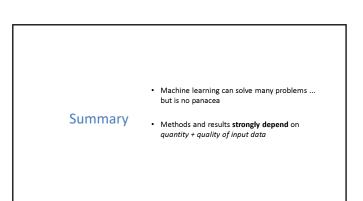


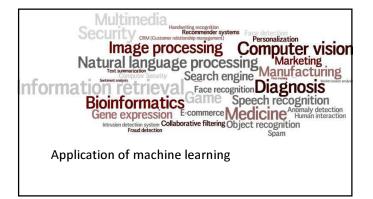


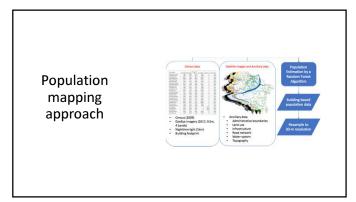


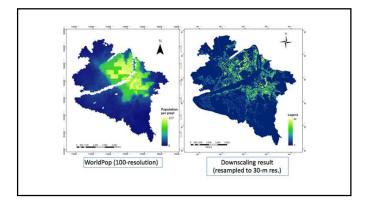
Reinforcement

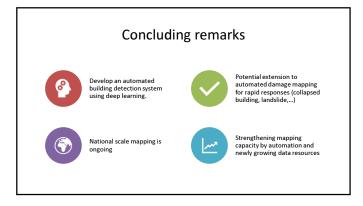
• Learning from mistake











Validation							
Distrcit name		Total of Estimation (2009)	Error	Estimation 3000			
Phường Phủ Hòa	6080	2815	-3265	y = 0.9244x + 2896.5 R ² = 0.6722			
Phường Phước Vĩnh	20959	17874	-3085	22500			
Phường Phủ Cát	8859	7698	-1161				
Phường Phủ Hiệp	13774	12862	-912	15000			
Phường Phủ Hậu	9758	8851	-907	3			
Phường Phủ Bình	9664	8800	-864	7500			
Phường Phủ Hội	12038	11685	-353	· ·			
Phường An Cựu	22268	22355	87	0 6000 12000 18000 24000			
Phường Vĩ Dạ	19423	19583	160	Population (2009)			

