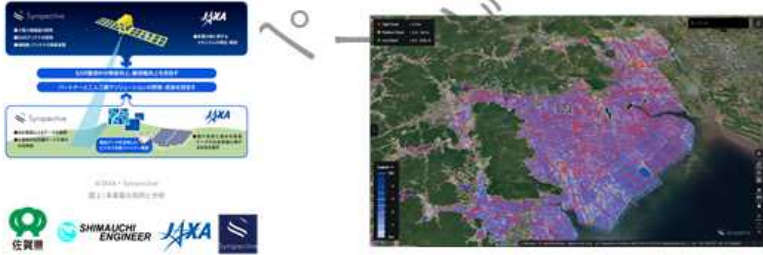


Company Information	Company Name	Synspective Inc.				Industry	Other			
	Website	https://synspective.com/								
Technology / Solution	Tech/Solution Name	Flood Damage Assessment								
	Which field does the tech/solution contribute to?	Quality Infrastructure and Smart City								
	"Quality Infrastructure"	Road/Bridge	<input type="radio"/>	Port	<input type="radio"/>	Airport	<input type="radio"/>			
		Water and Sewage	<input type="radio"/>	Power generation /Energy	<input checked="" type="radio"/>	Railroad	<input type="radio"/>			
		Housing	<input type="radio"/>	ICT	<input checked="" type="radio"/>	Others (Free Writing)				
	"Smart City"	Traffic/Mobility	<input type="radio"/>	Energy	<input checked="" type="radio"/>	Disaster Prevention	<input type="radio"/>			
		Infrastructure Maintenance	<input type="radio"/>	Community Activation /Sightseeing	<input type="radio"/>	Health/Medical	<input checked="" type="radio"/>			
		Agriculture, Forestry and Fisheries	<input type="radio"/>	Environment	<input type="radio"/>	Security	<input type="radio"/>			
		Logistics	<input type="radio"/>	Urban Planning /Maintenance	<input type="radio"/>	Others (Free Writing)				
	Key words	Space, SAR satellite, Disaster mitigation/prevention								
Overview of the tech/solution	<p>Web service that provides data of flooded areas and depths over a wide area based on SAR satellite observation data in the event of a flood.</p> <p>Emergencies: Supporting appropriate initial response and decision-making by promptly assessing the damage situation</p> <p>Normal times: Based on SAR satellite observation data of inundation damage from past disasters, the data can be used for future urban planning studies, such as identifying areas where levees should be strengthened and drainage should be reinforced.</p>									
Description of the tech/solution	<p>A design interface that allows anyone to grasp the flood damage situation over a wide area through a web service anytime, anywhere</p>									
Global Expansion	Asia	Already developed	Africa	Consider if requested	Middle East	Consider if requested	Europe	Considering development		
	Russia	Consider if requested	Oceania	Already developed	North America	Considering development	Mid/South America	Considering development		

Case Study	Country	Japan																																	
	City	Saga Prefecture																																	
	Project name	Implementation of Monitoring Service for Disaster Situation by Small SAR (Synthetic Aperture Radar) Sa																																	
	Project Overview	<p>FDA service is expected to contribute to quick decision making by providing primary information on the damage in a wide area during a water-related disaster.</p> <p>Synspective, Saga Prefectural, Shimauchi Engineer Co., Ltd. and JAXA will collaborate to demonstrate the use of the small SAR satellite constellation to improve the accuracy of flood damage analysis caused by heavy rains.</p> <p>The project also includes a study of how to improve the efficiency of operations and optimize the collection of information at the time of water-related disasters.</p> <p>Translated with www.DeepL.com/Translator (free version)</p>																																	
	Discription of the project	<p>In the event of a water-related disaster, the local government will be able to quickly assess the situation and make appropriate initial responses and decisions:</p>  <p>Improving the initial response during natural disasters with SAR satellites Quickly and widely grasp situations with SAR satellites for appropriate initial response and decisionmaking</p> <p>Current Issue We can only collect fragmented and inaccurate data to grasp the situation</p> <p>After implementation We can quickly and accurately analyze situations and act swiftly!</p> <ul style="list-style-type: none"> Difficulties analyzing situations during bad weather (Limited human surveys, Sensor data etc.) Difficulties prioritizing initial response locations Quick assessment of situations and appropriate decisions made with satellites Ensure a common understanding amongst disaster response stakeholders based on initial data 																																	
Website of the project	https://synspective.com/press-release/2021/jaxa-synspective/																																		
SDGs	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9</td><td></td><td>11</td><td></td><td>13</td><td></td><td>15</td><td></td><td>17</td> </tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17									9		11		13		15		17
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								9		11		13		15		17																			
Note (Award etc.)	<p>Selected as one of top 4 team out of 26, at the Humanitarian Assistance and Disaster Relief (HADR) Challenge, hosted by Singapore Space and Technology Ltd (SSTL) and Southeast Asia Disaster Risk Insurance Facility (SEADRIF) supported by The World Bank</p> <p>https://www.space.org.sg/events/ur2020-sstl-x-the-world-bank-hadr-challenge-pitching-session/</p>																																		