
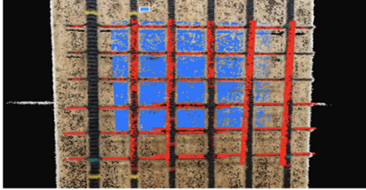




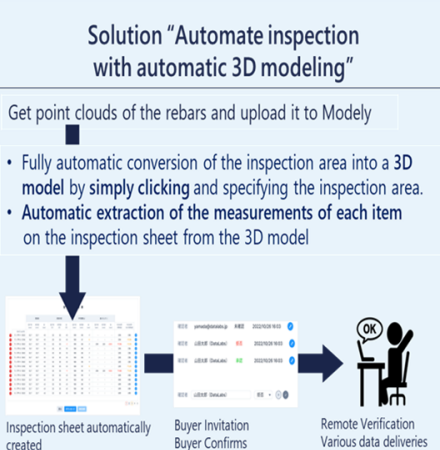


Company Information	Company Name	DataLabs, Inc.				Industry	Other			
	Website	https://www.datalabs.jp/								
Technology / Solution	Tech/Solution Name	Solution "Automate inspection with automatic 3D modeling" (3D reinforcement inspection tool [Modely])								
	Which field does the tech/solution contribute to?	Quality Infrastructure and Smart City								
	"Quality Infrastructure" Which category can the tech/solution be applied to?	Road/Bridge	<input type="radio"/>	Port	<input type="radio"/>	Airport	<input type="radio"/>			
		Water and Sewage	<input type="radio"/>	Power generation /Energy	<input type="radio"/>	Railroad	<input type="radio"/>			
		Housing	<input type="radio"/>	ICT	<input checked="" type="checkbox"/>	Others (Free Writing)	0			
	"Smart City" Which problem can the tech/solution solve?	Traffic/Mobility	<input checked="" type="checkbox"/>	Energy	<input checked="" type="checkbox"/>	Disaster Prevention	<input checked="" type="checkbox"/>			
		Infrastructure Maintenance	<input type="radio"/>	Community Activation /Sightseeing	<input checked="" type="checkbox"/>	Health/Medical	<input checked="" type="checkbox"/>			
		Agriculture, Forestry and Fisheries	<input checked="" type="checkbox"/>	Environment	<input checked="" type="checkbox"/>	Security	<input checked="" type="checkbox"/>			
		Logistics	<input checked="" type="checkbox"/>	Urban Planning /Maintenance	<input type="radio"/>	Others (Free Writing)	0			
	Key words	Automatic 3D modeling								
Overview of the tech/solution	<ul style="list-style-type: none"> <li>• Automate reinforcement inspection with a single iPad!</li> <li>• Automatically generates 3D models from point cloud and completes everything from pass/fail evaluation of inspection items to the creation of inspection sheets.</li> <li>• By utilizing 3D data, multiple inspection items and complex reinforcement types such as circular hoop reinforcement can be handled.</li> </ul>									
Description of the tech/solution	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p><b>STEP1 Measurement</b></p> <p>Obtain point cloud of target location with an iPad etc. equipped with LiDAR</p>  </div> <div style="width: 50%;"> <p><b>STEP2 Modeling</b></p> <p>Automatically converts the inspection area into a 3D model</p>  </div> <div style="width: 50%;"> <p><b>STEP3 Qty calculation/Documentation</b></p> <p>Automatically calculates quantity, arrangement, and cover thickness +documentation</p>  </div> <div style="width: 50%;"> <p><b>STEP4 Sharing/Reporting</b></p> <p>Share 3D data and documents/forms on cloud</p>  </div> </div>									
Global Expansion	Asia	Consider if requested	Africa	No plan to develop	Middle East	No plan to develop	Europe	Consider if requested		
	Russia	No plan to develop	Oceania	No plan to develop	North America	Consider if requested	Mid/South America	No plan to develop		

	Country	JAPAN															
	City	Non-disclosure															
	Project name	【Central Nippon Expressway Company Limited】Demonstration of efficiency in on-site inspection using reinforcement inspection tools															
	Project Overview	<p>○Method We will evaluate the reinforcement inspection tool “Modely” by comparing it with current business methods. [Evaluation items] Automatic pass/fail judgment of inspection items, effectiveness of form output, work efficiency, etc. [Inspection flow using Modely] Step 1: Scan the area to be inspected using a tablet device with LiDAR function. Upload the acquired scan data to Modely’s cloud system Step 2: Check the rebars model generated based on point cloud data Step 3: Perform inspection using the form automatically generated from the rebar model</p> <p>○Result We confirmed that the overall work time involved in inspections can be reduced compared to the current work method.</p>															
Case Study	Discription of the project	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><b>Traditional Issues</b></p>  <p style="text-align: center;">Manual measurement Too much time and human error</p>  <p style="text-align: center;">Too much document / photo management High administration costs, Lots of images</p> </div> <div style="width: 50%; border: 1px solid #ccc; padding: 10px; background-color: #e6f2ff;"> <p style="text-align: center;"><b>Solution “Automate inspection with automatic 3D modeling”</b></p> <p style="text-align: center;">Get point clouds of the rebars and upload it to Modely</p> <ul style="list-style-type: none"> <li>Fully automatic conversion of the inspection area into a 3D model by simply clicking and specifying the inspection area.</li> <li>Automatic extraction of the measurements of each item on the inspection sheet from the 3D model</li> </ul>  <p style="text-align: center;">Inspection sheet automatically created    Buyer Invitation Buyer Confirms    Remote Verification Various data deliveries</p> <p style="text-align: center;"><b>Top 3 Benefits</b></p> <ol style="list-style-type: none"> <li>(1) Work can be done by only one person, the time/cost of site training &amp; report creation is significantly reduced</li> <li>(2) Due to cloud inspection, on site inspection is no longer necessary, making the overall work process much more efficient.</li> <li>(3) Current Rebar arrangement 3D model can be utilized in terms of maintenance management</li> </ol> </div> </div>															
Website of the project		<a href="https://www.c-nexco.co.jp/corporate/pressroom/news_release/5830.html">https://www.c-nexco.co.jp/corporate/pressroom/news_release/5830.html</a>															
SDGs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Note (Award etc.)	<p>•New Technology Information System:NETIS (CB-230008-A)</p> <p>•Received the Ministry of Land, Infrastructure, Transport and Tourism’s Infrastructure DX Grand Prize (Startup Encouragement Award)(February 2024)</p>																