

Representative Projects

performed by SCDS Corp. and affiliates, between 2002 and 2017

Item	Year	Customer	Application Category	Project	Site/Location
1	2002	Canada Revenue Agency www.cra-rc.gc.ca/taxcredit/sred	Scientific Research and Experimental Development (R&D)	Non-Contact 3D Scanning for Aircraft Modeling	Montreal (Quebec), Canada
2	2003	Ministry of Transportation Quebec www.mtq.gouv.qc.ca	Bridges, Viaducts and Road Structures	Detailed Scanning of Lachapelle Bridge (medium span)	Laval (Quebec), Canada
3	2003	Municipality www.ville.montreal.qc.ca	Buildings, Heritage Preservation	Interior and Exterior Replicas of St. David Church	Pierrefonds (Quebec), Canada
4	2003	Bell Helicopter Textron www.bellhelicopter.com/en	Aerospace	Complete Scanning of Bell 407 Fuselage	Mirabel (Quebec), Canada
5	2003	Airliquide Canada www.airliquide.ca	Plant/Piping Design	Scanning and Layout Documenting of Nitrogen Lines	Varennnes (Quebec), Canada
6	2003	Public Works and Governmental Services www.pwgsc.gc.ca	Architectural Design and Inventory	Interior Scanning of a Government Building	Ottawa (Ontario), Canada
7	2003	Research Institute of Hydro Quebec www.ireq.ca	Energy Systems, Turbomachinery	Detailed Scanning of a Francis turbine in its operating environment, for performance evaluation	Bay James (Quebec), Canada
8	2004	Messier – Dowty www.messier-dowty.com	Aerospace	Landing gear parts scanning for reverse engineering	Mirabel (Quebec), Canada
9	2004	CAE Inc./CRIAQ www.cae.com www.criq.aero	Aerospace, R&D	Business Jet Scanning (in-hangar & in-flight) Solid Modeling, Simulation	Montreal (Quebec), Canada
10	2004	Federal Bridges www.pjcci.ca	Bridges, Viaducts and Road Structures	Champlain Bridge, expansion joints behavior analysis, winter phase, Scanning, Modeling, Monitoring	Montreal (Quebec), Canada
11	2004	Arsenault Surveyors	Buildings/Construction	Building in Vieux Port, Scanning, Modeling	Montreal (Quebec), Canada
12	2004	CAE Inc./CRIAQ www.cae.com www.criq.aero	Aerospace, R&D	Business Jet Scanning (in-hangar & in-flight) Solid Modeling, Simulation	Montreal (Quebec), Canada
13	2004	Public Works and Governmental Services www.pwgsc.gc.ca	Historic and Heritage Preservation	Scanning and Monitoring of Retaining Wall on Parliament Hill	Ottawa (Ontario), Canada
14	2004	Federal Bridges www.pjcci.ca	Bridges, Viaducts and Road Structures	Champlain Bridge, expansion joints behavior analysis, summer phase, Scanning, Modeling, Monitoring	Montreal (Quebec), Canada

15	2004	Canada Revenue Agency www.cra-rc.gc.ca/taxcredit/sred	R&D	Optical System for Acquisition and Accurate Geometrical Reconstruction of Areas That Are Inaccessible to Non-Contact 3D Scanning	Montreal (Quebec), Canada
16	2004	CAE Inc./CRIAQ www.cae.com www.criaq.aero	Aerospace, R&D	Business Jet Scanning (in-hangar & in-flight) Solid Modeling, Simulation	Montreal (Quebec), Canada
17	2005	Tesnic	Energy Systems, R&D	Wind Turbine, Horizontal Axis Turbine Design	Montreal (Quebec), Canada
18	2005	Bahrain Financial Harbor	Construction, QA, engAUDIT	Internal Elevator Shaft Scanning, Modeling, Monitoring	Manama, Bahrain
19	2005	Hydro-Quebec www.hydroquebec.com	Energy Systems, Turbomachinery	Kaplan Turbine, Scanning, Modeling, Analysis, Digital Simulation	Bryson (Quebec), Canada
20	2005	Verrault Navigation www.groupeverreault.com	Maritime Technologies	Madeleine Ferry Hull Scanning, Modeling, Stability Analysis	Gaspésie, (Quebec), Canada
21	2006	AVR-BMI Motorsports	Automotive/Racing	NASCAR Racing Cars, Scanning, Modeling, Workflow Design for CFD/Performance Analysis	Greenville/Atlanta, US
22	2006	Federal Bridges www.pjcci.ca	Bridges, Viaducts and Road Structures	Champlain Bridge Deck, Scanning, Modeling, Cambering and Profiling	Montreal (Quebec), Canada
23	2006	Federal Bridges www.pjcci.ca	Bridges, Viaducts and Road Structures	Scanning and Modeling of Mercier Bridge and Associated Peers and Structures	Montreal (Quebec), Canada
24	2006	Alstom Hydro Canada www.hydro.power.alstom.com	Energy Systems, Turbomachinery	Kaplan Turbine, Scanning, Modeling, Reverse Engineering	Shefferville (Labrador), Canada
25	2006	Ministry of Transportation Quebec www.mtq.gouv.qc.ca	Bridges, Viaducts and Road Structures, Accident Investigation, Industrial Forensic	Collapsed Overpass, Scanning, Modeling	Laval (Quebec), Canada
26	2006	SNC Lavalin and Ministry of Transportation Quebec www.snclavalin.com	Bridges, Viaducts and Road Structures	Laviolette Bridge, Scanning, Modeling	Trois-Riviers (Quebec), Canada
27	2006	SNC Lavalin www.snclavalin.com	Construction QA	Olympic Stadium Scanning and Modeling for Structural Evaluation	Montreal (Quebec), Canada
28	2006	Domtar www.domtar.com	Dams	Dam and Rock Bottom Scanning, Modeling and Monitoring	Ottawa (Ontario), Canada
29	2007	Bombardier Aerospace (Flight Test Center) www.bombardier.com	Aerospace, R&D	Business Jet Scanning (in-hangar & in-flight) Solid Modeling, Simulation	Wichita, Kansas, US

30	2007	Ministry of Information, Bahrain	Historic and Heritage Preservation	Portuguese Fort, Scanning, Modeling, Restoration Analysis, Virtual Touring, Web Portal Deployment	Manama, Bahrain
31	2007	Summit Metrology	Maritime Technologies	Modeling of Several Types of Medium Size Vessels	Vancouver (BC), Canada
32	2007	Research Institute of Hydro-Quebec www.ireq.ca	Energy Systems, Turbomachinery	Vacuum Tunnel Scanning, Modeling and Monitoring	Haute Mauricie (Quebec), Canada
33	2007	Public Works and Governmental Services Canada www.pwgsc.gc.ca	Rehabilitation	Tunnel, Scanning, Modeling, Monitoring	Nova Scotia, Canada
34	2008	Ark International www.arktecinc.com	Historic and Heritage Preservation	Step Pyramid of Sakkara, Feasibility Study	Cairo, Egypt
35	2008 2010	HICO Middle East Marine Engineering Services	Capacity Building Program	Consulting, Full Training Package, Post-Implementation and Project Support	Dubai, UAE
36	2008	Saudi ARAMCO	Industrial Installations and Sites, On- and Off-Shore Oil Rigs	7 Projects of Scanning, Modeling, HDD, As-Built (6 x On-Shore and 1 x Off-Shore)	Eastern Province, Saudi Arabia
37	2008	HATCH www.hatch.ca	Industrial Installations and Sites, Plant Upgrading Design	Scanning and Virtual Tour	Sorel (Quebec), Canada
38	2008	HICO Middle East Marine Engineering Services	Industrial Installations and Sites, On- and Off-Shore Oil Rigs	Scanning, Deformation Analysis and As-Built	Global Pearl Rig in Sharjah, Dubai, UAE
39	2008	TT KATZ Façade Evaluation	Construction, QA, engAUDIT, easyBIM	Scanning and Numerical Analysis	Montreal (Quebec), Canada
40	2008	Public Works and Governmental Services www.pwgsc.gc.ca	Construction, QA, engAUDIT, easyBIM	Retaining Wall Scanning, Evaluation and Monitoring	Ottawa, Canada
41	2009	Pearl Development Corporation, Colorado, US	Industrial Installations and Sites, Oil and Gas, Refineries	Scanning, Local/Global Referencing, Database Management	RAK Gas Refinery in Ras-Al-Khaimah, UAE
42	2009	Dhaliliyah, Saudi Arabia	3D Laser Scanning System Integration and Distribution, Specialized Training	Consulting and Capacity Building	Riyadh, Saudi Arabia
43	2009	École de Technologies Supérieure	Aerospace, R&D	Scanning, Modeling, Simulation	Montreal & CNRC Labs Ottawa, Canada
44	2009	Hydro-Quebec www.hydroquebec.com	3D Laser Scanning System Integration and Distribution, Specialized Training	Training, Capacity Building	Montreal (Quebec), Canada
45	2009	Hydro-Quebec www.hydroquebec.com	Energy Systems, Turbomachinery	Scanning and Modeling of a Kaplan Turbine and Associated Structures	Haute Mauricie (Quebec), Canada

46	2010	Ville de Gatineau (City of Gatineau)	Transportation, Roads, Road Structures and Infrastructures	Scanning, As-Built/HDD, Inventory, Spatial Archiving of 300 Cross-Sections and 4000 Elevation Points	Gatineau (Quebec) Canada
47	2010	Hydro-Quebec/Geomatics www.hydroquebec.com	Capacity Building, System Integration	Specific License Management and Training	Montreal (Quebec), Canada
48	2010	Groupe PHB, Lasermap	Bridges, Viaducts and Road Structures	Scanning of 5 Viaducts, As-Built, Numerical Analysis, Integration with Aerial Data	Montreal (Quebec), Canada
49	2010	Dammam Municipality, Saudi Arabia	Bridges, Viaducts and Road Structures, Urban Rehabilitation	Scanning, Monitoring, Modeling, and Rehabilitation Support	Dammam, Saudi Arabia
50	2010	Ministry of Information, PNA, and Research Center, Ferrara University, Italy	Historic and Heritage Preservation, Restoration Analysis and Study, easyBIM	Scanning, 2D/3D Documentation, Structural Analysis, Evaluation and Support for Restoration Studies, Metadata Management via metadataX www.metadataax.com	Church of the Nativity, Bethlehem
51	2010	Wilcox High School	Construction, QA	HD Documentation, 3D Modeling via NURBS, 3D Archiving via metadataX www.metadataax.com	San Mateo, California, US
52	2010	Mills Hospital	Industrial Installations and Piping, Construction, QA	Generator Rooms - 3D Modeling and Metadata Management via metadataX www.metadataax.com	San Francisco, US
53	2010	Arcelor Mittal Mines Canada	Industrial Installations and Piping, Plant Upgrading and Rehabilitation Design	Scanning and Pre-Processing of Large Interior and Exterior Areas	Port Cartier (Quebec), Canada
54	2010	Canada Revenue Agency www.cra-rc.gc.ca/taxcredit/sred	R&D	Integrated System for Fast and Quasi-Automatic Reverse Engineering, Design, and Inspection of High Precision Parts and Assemblies	Montreal (Quebec), Canada
55	2011	Museum of Oltenia	3D Imaging for Historic and Heritage Preservation including GPR (Ground Penetrating Radar) Acquisition	GPR and Terrestrial Laser Scanning of an Ancient (Roman Empire Age) Site, Data Integration into a Unique Model Space, Metadata Management via metadataX www.metadataax.com	Cioroiu Nou, Romania
56	2011	Museum of Oltenia	High Precision Scanning of Artefacts, Reverse Engineering	3D Scanning and Archiving of Museum Collection Artefacts	Craiova, Romania
57	2011	Casa Baniei	Historic and Heritage Preservation, Digital Museum	Designing, Building and Integrating a Cycloramic Viewer	Craiova, Romania
58	2011	Galerie d'Art (Art Gallery), Vieux Port	Digital Museum	Creating a Customizable Cycloramic Viewer	Montreal (Quebec), Canada

59	2011	Groupe Pomerleau Canada	Bridges, Viaducts and Road Structures	Spatial HD Documentation of Mercier Bridge, Upper Multiline Side	Montreal (Quebec), Canada
60	2011	University of Craiova, Romania	Construction, QA, engAUDIT, easyBIM	Multi-Façade Tower Scanning, Numerical Analysis and Automatic Construction of Cladding Fixation Members, Cladding Installation QA and Monitoring, Spatial Data Management via metadataX www.metadataax.com	Craiova, Romania
61	2011	Al Anoud/Dhaliliyah, Riyadh	Construction, QA, engAUDIT, easyBIM	Al Anoud Tower 2, As-Built	Riyadh, KSA
62	2011	Immersence, San Francisco	Environmental Studies, Ecosystem Analysis	Scanning, Modeling, Custom Programming	Frelighsburg
63	2011	Standard Life, Canada	Construction, QA, engAUDIT	Scanning, Modeling, Analysis	Montreal, Canada
64	2011	Reliance Construction, Canada	Construction, QA, engAUDIT	Scanning, Modeling, Analysis	Montreal, Canada
65	2011 2012	Public Works and Governmental Services	Construction, QA, engAUDIT	Scanning, Modeling, Analysis	Ottawa, Canada
66	2011 2012	Great Lakes St. Lawrence Seaway System	Monitoring, QA, engAUDIT	Scanning, Modeling, Analysis, Custom Programming	Montreal, Canada
67	2011	Immersence, San Francisco	Environmental Studies, Ecosystem Analysis	Scanning, Modeling, Custom Programming	Frelighsburg
68	2012	Hendrickson's Truck Components	Automotive, CFD	Scanning, Data Processing	Chicago, IL
69	2014	College Maisonneuve	Architecture, Inspection	3D laser scanning for Facades Investigation	Montreal (Québec), Canada
70	2014	Bellanger Architects	Architecture, Facades Inspection	Facades Deformation Evaluation	Montreal (Québec), Canada
71	2014	Horseshoe Hill Construction Inc.	Bridges, Infrastructure	3D Laser Scanning and Data Processing Services for Thermal Analysis	Strandherd-Armstrong Bridge, Ottawa, (ON), Canada
72	2014	IVACO Rolling Mills	Plants, Industrial Installation	3D Laser Scanning, Volumetric Computations, Process Simulation and Perf. Evaluation	Ontario, Canada
73	2014	PHB, Lasermap	Infrastructures, Tunnel	Louis-Hippolyte Lafontaine Bridge-Tunnel	Montreal (Québec), Canada

74	2014	Centre Jeunesse Montreal	Architecture, Facades Inspection	3D Laser Scanning for Facades Investigation	Montreal (Québec), Canada
75	2015	HATCH	Aluminium Plants	As-Built, 3D Modeling	Montreal (Québec), Canada
76	2015	Immersence	Archeology	Grotto, Structural Evaluation	Frelighsburg
77	2015	Collège de Rosemont	Architecture, Building Facade Inspection	Complete 3D Laser Scanning on roofs and exteriors	Montreal (Québec), Canada
78	2016	Bombardier Aerospace	Aerospace	In-flight Wing Digitization and Solid Modeling	Wichita, KS, USA
79	2016	HATCH	Aluminum Plants – ALCOA	HD Laser Scanning	Québec Canada
80	2016	Montreal Municipality, École Notre-Dame-des-Sept-Douleurs	Heritage Building Architecture, Building Facade Inspection	3D Laser Scanning of the Building Envelope	Montreal (Québec), Canada
81	2016	IVACO Rolling Mills	Plants, Industrial Installation	Crane Rail Inspection, Analysis and Deformation Mapping	Ontario, Canada
82	2016	ALCOA	Aluminium Plants	3D Laser Scanning for Maintenance/Upgrading	Deschambault (Québec), Canada
83	2016	Quality Masters Group for Trading & Contracting	Representation Agreement	Construction, Oil & Gas	Cairo, Egypt
84	2017	Bombardier Aerospace	Aerospace	In-flight Wing Digitization	Fort Lauderdale, FL
85	2017	IVACO Rolling Mills	Plants, Industrial Installation	Furnace Shell Digitization and Deformation Analysis via 3D Compare	Ontario
86	2017	HATCH / Nemaska Lithium	Plant Engineering	Complete Plant Digitization and TruViews	Québec