

History QUANT

1991	Nunzio La Vecchia begins his research and development into energy technologies, with focus on special-purpose mechanical engineering, material research, solar technology, plasma physics, microelectronics, and computer science
1996	Founded JUNO Technology Products AG research and development centre in Zurich. Became nanoFLOWCELL AG in 2013
1998	Founded NLV Solar AG in Zug, Switzerland, patent licensing company, patent filed for Thinfilm Solar Cell
2001	Opening of JUNO DigiLab, Virtual Reality Centre in Zurich. Renamed nanoFLOWCELL DigiLab in 2013
2003	First sketches and designs developed for an innovative automobile with an alternative drive train
2008	Contract of cooperation signed between NLV Solar AG with a Swedish automobile manufacturer for the development of an innovative electric test vehicle, the Quant
March 2009	Presentation of a full-scale concept of the NLV Quant at the 2009 Geneva Motor Show
2009	End of cooperation with Swedish automobile manufacturer
2010	Presentation of the NLV Quant prototype at the Geneva Motor Show Presentation at Top Marques Monaco 2010
2008-14	Continuing development of drive train technology and flowcell systems based on molecular engineering and internal research at the nanoFLOWCELL DigiLab in Zurich
2012	Founding of QUANT World AG
December 2013	nanoFLOWCELL AG founded in Vaduz, Liechtenstein
End of January 2014	Continuation of the cooperation between Bosch Engineering GmbH and nanoFLOWCELL AG for the on-going development of the QUANT e-Sportlimousine
March 4, 2014	Prototype world premiere: First official presentation of the QUANT e-Sportlimousine at the Geneva Motor Show

2014	Manufacture of five more driveable QUANT e-Sportlimousine research and test vehicles. Further research and development focus will include performance regulation of the nanoFLOWCELL® during operation, calibration of recuperative charging strategies, regenerative cell charging, as well as safety and quality checks
2014/2015	Certification of the QUANT e-Sportlimousine for use on public roads

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About nanoFLOWCELL AG

Founded in late 2013, nanoFLOWCELL AG is an innovative Research and Development Centre based in Vaduz, Liechtenstein. The focus of nanoFLOWCELL AG's research is on the advanced development of drive technology and the classification of flow-cell technology. In the simulation laboratory of the nanoFLOWCELL DigiLab in Zurich, mastermind and development chief Nunzio La Vecchia and his team examine important aspects of quantum chemistry on the basis of molecular engineering. For years they simulated experiments with charge transfer, then conducted trials using digital models, before finally synthesising them for further testing. The current research vehicle, the QUANT e-Sportlimousine, enables the developers to study the mechanisms of charge transfer for the innovative storage technology - the nanoFLOWCELL® - during vehicle operation, as well as to fine tune charge strategies for recuperation and further develop the regeneration of cell charging and safety as well as quality controls.