SIEMENS

Background Information

Washington, April 2016

Local Motors

Founded in 2007 and headquartered in the Phoenix area, Local Motors is a technology company that designs, builds, and sells vehicles. From bytes-to-bits, the Local Motors platform combines global co-creation with local micro-manufacturing to bring hardware innovations, like the world's first 3D-printed car, to market at unprecedented speed. The company currently has 116 employees, 52,000 community members and dozens of projects in development.

- The concept of co-creation is an essential element of Local Motors – bringing together its internal teams, the online community and the physical community to submit and vote on designs, ideas and prototype solutions. The company then works with a community of partners, suppliers, investors, fabricators, engineers and designers to manufacture and sell these products.
- Since its inception, Local Motors has created a wide variety of vehicles, including the Rally Fighter (a luxury race car), the Racer (a high-tech motorcycle), the Cruiser (a motorized bicycle), the Verrado (an electronic drift trike), and the world's first fleet of 3D-printed cars.
- Local Motors debuted the first 3D-printed car in 2014 at the International Manufacturing Technology Show (IMTS) in Chicago. Called the Strati, the vehicle is the first in a line of 3D-printed cars.
- Local Motors' new facility in Knoxville, Tennessee, will be the first location in the world to print, refine and assemble a fleet of 3D-printed road ready cars. It is expected to be fully online late in 2016.
- The new Local Motors sales and demonstration center at National Harbor

will open in the summer of 2016 and feature a showcase of Local Motors vehicle technology, as well as lab space for new projects. This puts Prince George's County and the State of Maryland at the leading edge of an industry that is anticipated to explode in the coming years.

- With 22,000 square feet, the National Harbor facility will be the first Local Motors site on the east coast. The facility includes a lab that will be used for co-creation, research, technology, education and free community events, a showroom and retail store. This will be the first location for Local Motors in the East Coast.
- Local Motors' 3D-printed vehicles are made of carbon fiber reinforced thermoplastic, and the full print and assembly of a vehicle takes less than 48 hours. It will eventually take less than 24 hours.
- The Local Motors microfactory vision could revolutionize the auto industry much like the assembly line did a century ago. By being able to take design directly to a 3D-printer, "I can change it on a dime," according to Local Motors CEO and Co-Founder Jay Rogers. "I can make it shorter, I can make it taller, the second vehicle can be different from the first vehicle. Model years cease to exist, products are developed 20 times faster, 36 times faster."

Siemens and Local Motors

- Siemens and Local Motors share a common vision for the future of product design and production.
- Siemens' Digital Enterprise Software Suite can help manufacturers enable the digitalization of their entire enterprise by allowing them to produce high fidelity "digital twins" – i.e. virtual models that accurately represent the form, function and performance of a product and its production facility.
- Local Motors is an innovative leader in global co-creation and 3D printing of entire vehicles.
- Crucial to accomplishing Local Motors' design ideas today is Solid Edge® software, Siemens' mainstream computer assisted design (CAD) software with synchronous technology, which enables Local Motors to seamlessly import and edit non-native CAD models from design collaborators around the world. Siemens' CAD offerings are the only products on the market with this capability, thanks to its exclusive synchronous technology.

- Backed by Siemens software and the use of large-scale 3D printing, Local Motors Lab members have access to some of the most advanced design and manufacturing technology available today.
- Siemens technology will be used in Local Motors' lab space coming online this summer at National Harbor, Maryland, just outside of Washington DC.
- In fact, Local Motors will open three new facilities this year, all of which will feature Local Motors Labs components powered with Siemens software.
    - National Harbor, Summer 2016 (sales, demonstration and lab space)
    - Berlin, Summer 2016 (lab space)
    - Knoxville, Fall 2016 (full-fledged DDM Microfactory)
- Siemens and Local Motors have had a close partnership since 2011, and due to the alignment of their visions, the two companies continue to identify additional ways to join forces in advancing the future of manufacturing. Siemens and Local Motors intend to reveal more on this partnership in April at Hannover Messe.