



Michigan Launch Initiative

Multiple aerospace companies, including SpaceX, Blue Origin, ISRO, ESA Vega, Firefly Aerospace and the US Department of Defense, have plans to launch thousands of satellites into low Earth orbit (LEO). From 2007 thru 2018 over 1,200 small satellites were launched. Between 2018 and 2027 more than 7,000 small satellite launches are planned... if sufficient launch capacity exists.

Northern Michigan is uniquely positioned for a polar orbit satellite launch facility: low density population, extensive restricted airspace, interstate highway system accessible, engineering and manufacturing capacity, and most critically, home of MAMA's Michigan Launch Initiative (MLI).

The MLI will be a public/private non-profit entity that provides a collaborative platform for academia, industry, and governmental agencies to provide LEO and hypersonic launch technology for commercial and defense applications. The MLI's priority is to organize industry partners to establish and operate a satellite launch facility and command center in Northern Michigan.

MLI will be the organization that will organize and facilitate interaction with governmental entities, including local, state, regional, federal and international agencies that will be involved with licensing, operational, and oversight of the launch facility and command operations center.

At full capacity, the MLI launch site will conduct 22-25 launches per year, with command center operating 24/7 for northern tracking operations. The infrastructure investment budget is \$50-75 million. Estimated revenue per launch is \$15,000,000 or \$375,000,000 per year.

Preliminary timeline is launch facility site selection Q2 2019; public/private funding secured Q3 2019; permits & environmental impact Q3 2020; ground break facility construction Q2 2021; first launch Q2 2022.

<http://spacelaunchreport.com/>

https://www.faa.gov/data_research/commercial_space_data/

<https://www.theverge.com/2018/9/28/17906158/nasa-spacex-oneweb-satellite-large-constellations-orbital-debris>