Low Earth orbit (LEO) is undergoing generational change, with billions invested to deliver revolutionary new services, from Earth observation to broadband internet to commercial human spaceflight. In the coming decade, a proliferation of new satellites will reshape the demographics of LEO. The growth is truly international in scope, as commercial space ventures and newly-formed space agencies from every corner of the globe compete for their place in the emerging LEO economy. Against this backdrop is a new generation of risks and opportunities that must be addressed to preserve LEO for future generations. The primary risk is the threat posed by space debris. Over 250,000 pieces of debris exist today in LEO, each with sufficient energy on impact to threaten satellites, critical services, and potentially the LEO ecosystem itself. As the pace of technological innovation in LEO accelerates, so do challenges to the current global regulatory regime, and to traditional Space Situational Awareness (SSA).

Today’s satellite operators face a critical need for new analytics and tools to support responsible satellite operations, to mitigate the risks of potential collisions and ensure safety of flight throughout the mission life cycle.

Enter LeoLabs. Our mission: Inform, Serve and Secure LEO. Founded in 2016 as a venture-funded spinout of Silicon Valley research pioneer, SRI International, LeoLabs’ unique offering --- our analytics software platform and API --- provides access to critical mapping and SSA data for low Earth orbit. We are the leading commercial supplier of analytics and services for LEO. Our business model is to provide SaaS-delivered applications and services to commercial & public entities engaged in the emerging LEO economy and ecosystem. These include collision avoidance services, risk assessment, constellation monitoring, and SSA data products. LeoLabs today serves space agencies, commercial satellite operators, defense, insurance, and scientific/academic organizations that are driving generational change in LEO.

Our core technology is a global network of ground-based, phased array radars that accurately track debris and satellites in LEO. We currently operate radars in Alaska, Texas, and New Zealand, and our completed network will consist of six total radar systems strategically located around the world for optimal orbital coverage. Observations generated from this network feed our analytics and services platform with timely and accurate orbital and situational data.

To learn more about our mission and capabilities, reach out to us at info@leolabs.space.