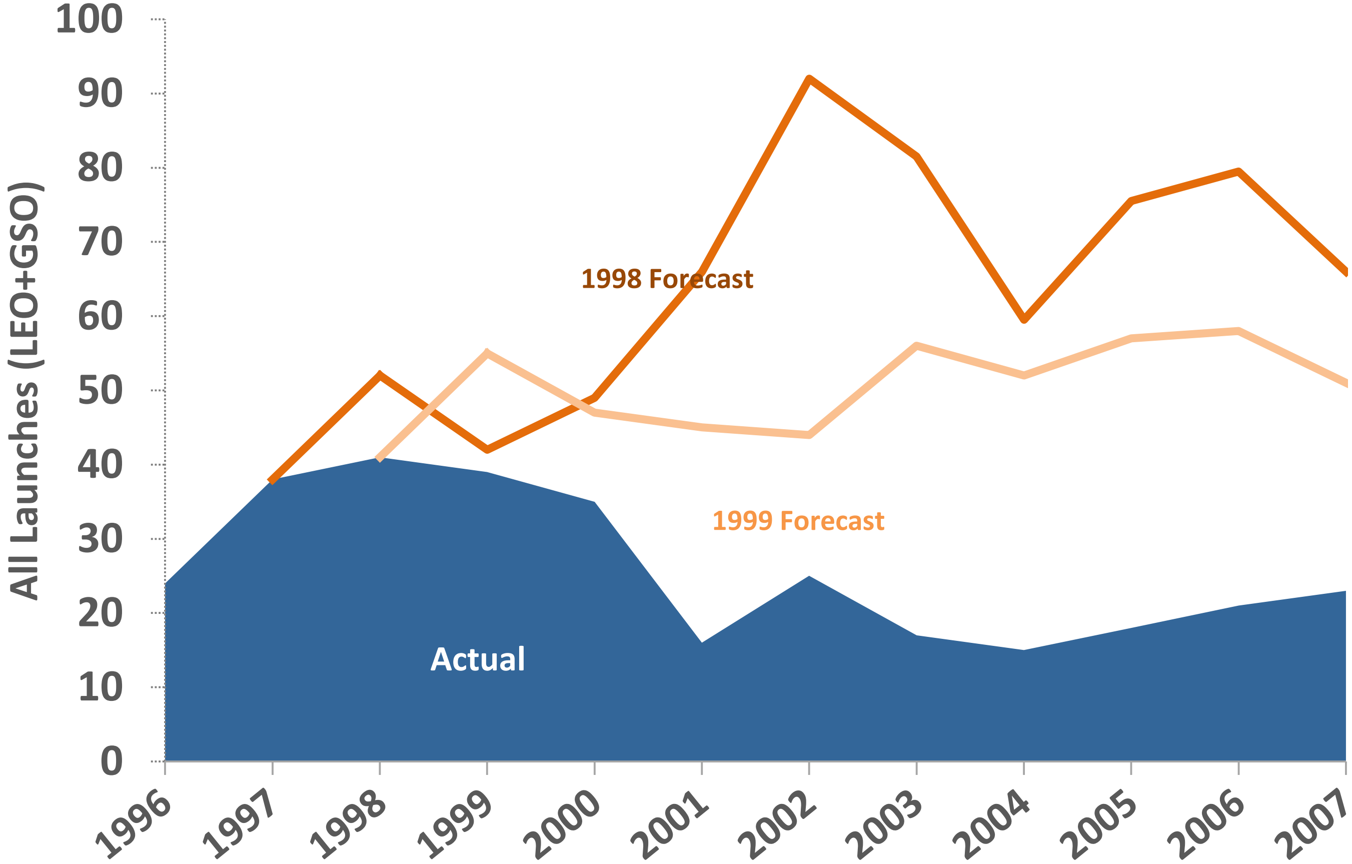
Small Launchers and US Industry Competitiveness

January 7, 2018

Engine For Growth:

Analysis and Recommendations for US Space Industry Competitiveness

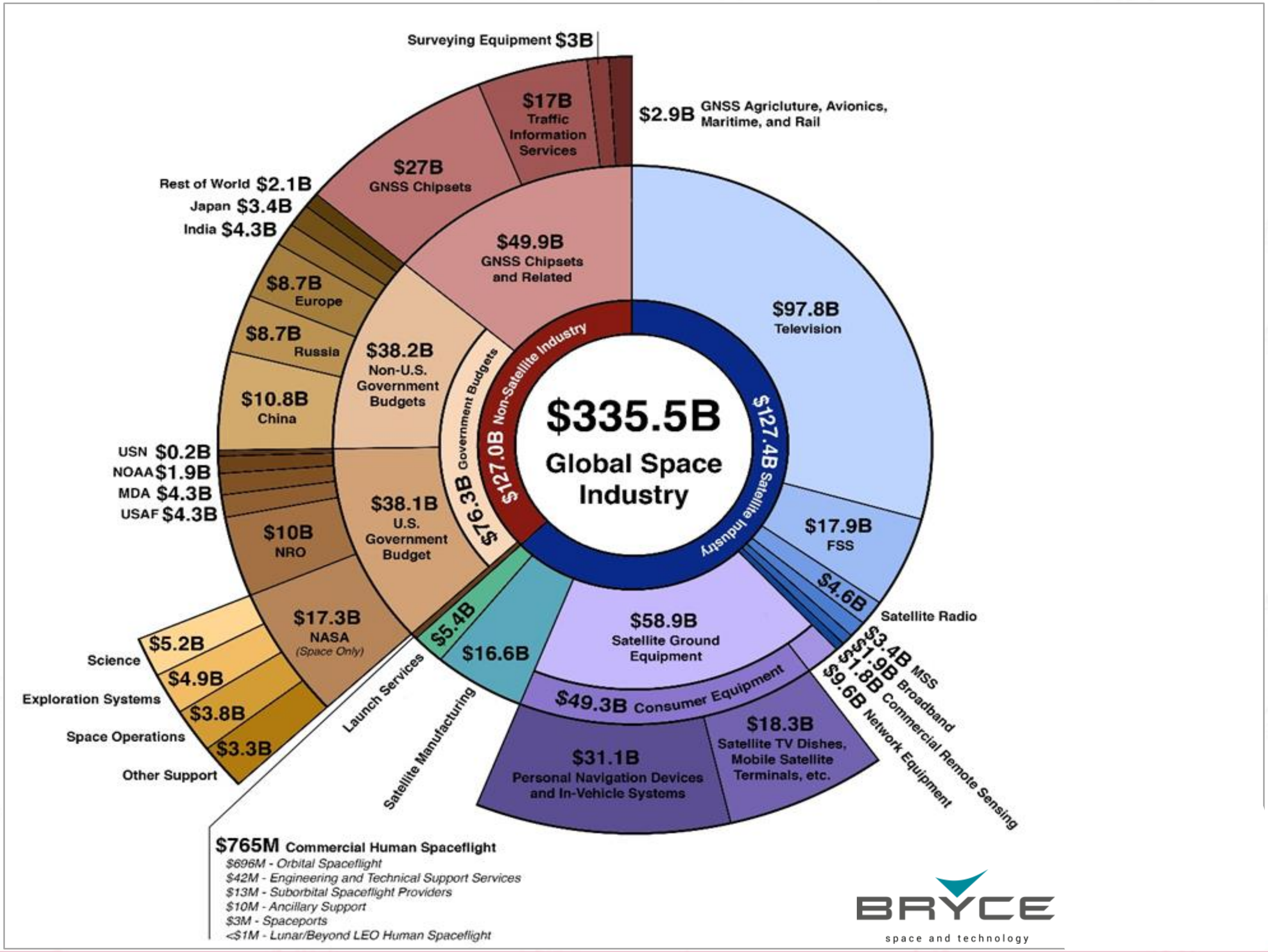
Strong Space Launch Forecasts do not Assure Success



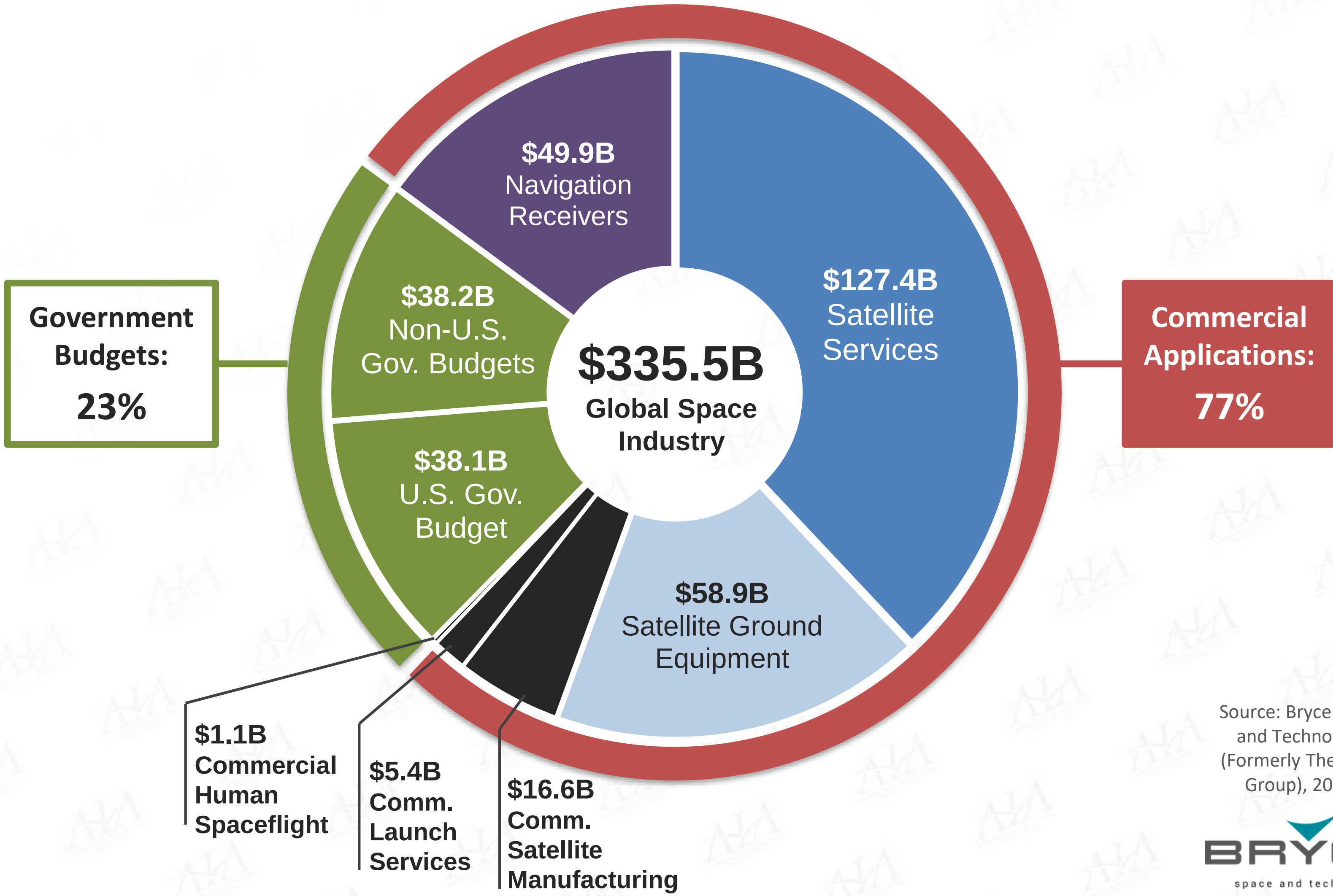
Source: Aerospace Industries Association (AIA), based on data from the Federal Aviation Administration, 2017. Launch forecast data based on FAA's Commercial Space Transportation Forecasts for 1998 and 1999.

Commercial Launches: Actual vs. Forecast

Launch Services and the Space Economy



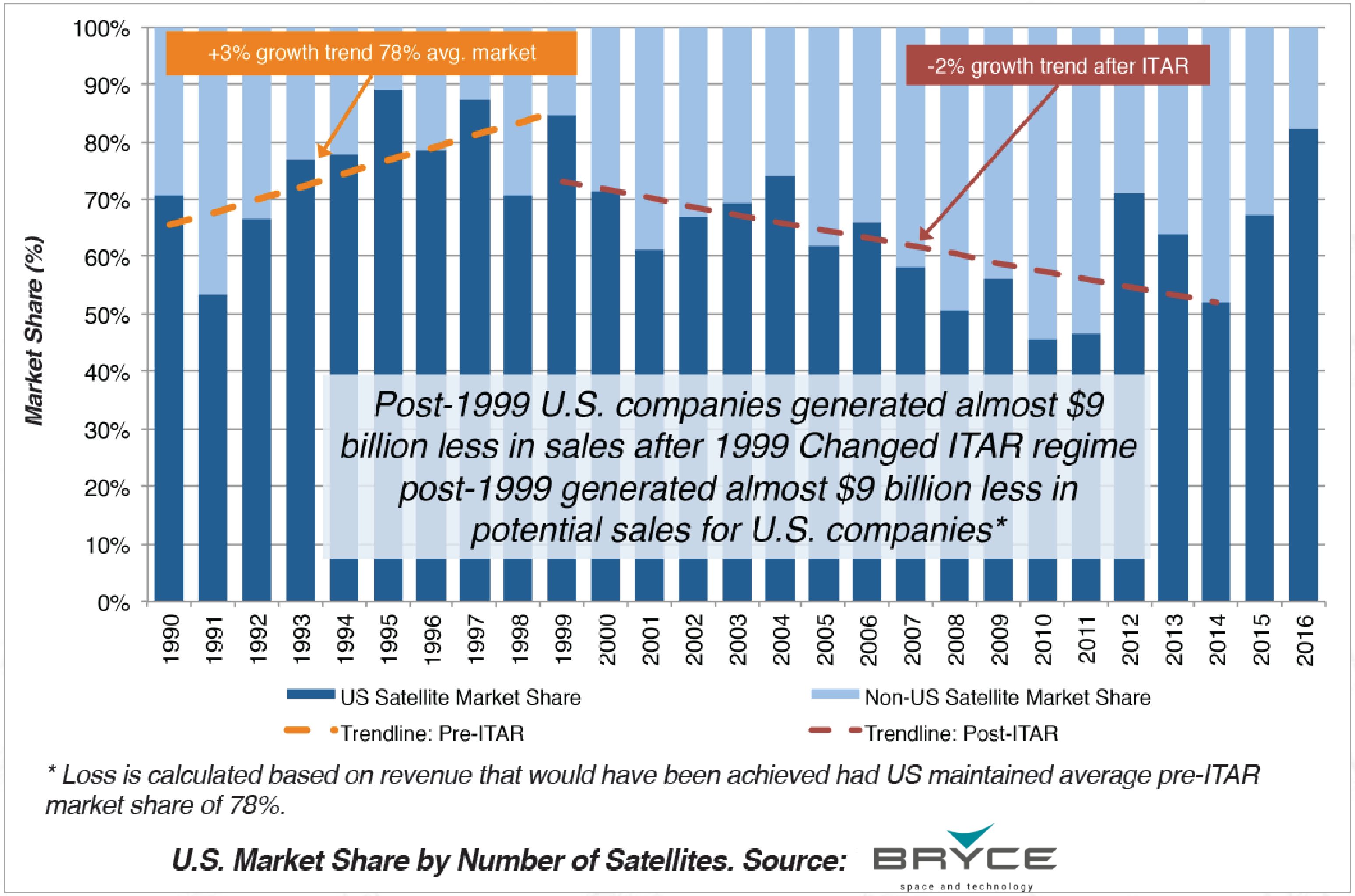
Launch Services and the Space Economy



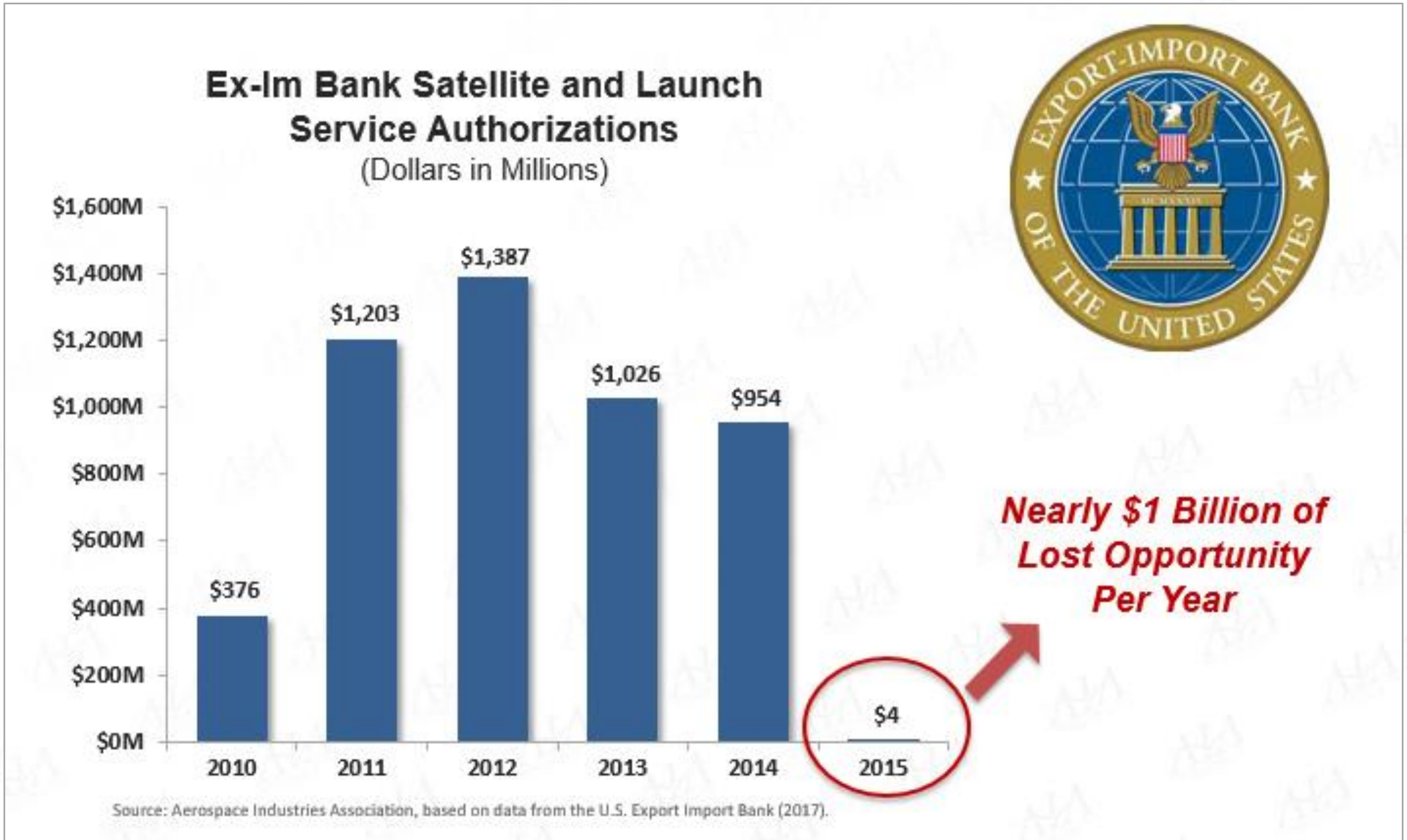
Source: Bryce Space and Technology (Formerly The Tauri Group), 2017.

BRYCE space and technology

Regulations Matter



International Financing Matters



Prioritizing Space Competitiveness Matters

I. Level the Playing Field

Provide a responsive regulatory environment for commercial space activities.

Continuously review, update and improve export rulemaking and policies to reflect market and technological evolution.

Restore full functionality to the Export Import Bank of the United States.

Ensure that tax reform supports U.S. space investment.

II. Expand Space Market Opportunities

Preserve the orbital environment.

Modernize US Missile Technology Control Regime (MTCR) restrictions to enable new, peaceful, international private sector space applications.

Prioritizing Space Competitiveness

<u>Prioritize Space Competitiveness as Vital to our Nation</u>

Designate a senior U.S. government official as a commercial space advocate and make Space Competitiveness a priority for the National Space Council.

Identify space security cooperation as a priority.

Leverage commercial capabilities to advance government missions.

Encourage enhanced leadership role for the Commerce Department's International Trade Administration (ITA).

The Office of Commercial Space Transportation (AST) should be adequately resourced to support a growing industry and moved out of the FAA

National Security and civil space technology research and development need more investment

Enabling Space Launch Competitiveness

Small Launch business *is a business* impacted by government and the market.

Government is a small market sector overall but government policies and priorities can do much to enable - or hobble – commercial success.

AIA urges the US government to pursue responsible policies from export regulations and financing to taxes and trade promotion that will enable US small launch companies to succeed.

A strong and vibrant commercial space industry is vital to our nation's security and 21st Century economic success.