



SWISS SPACE SYSTEMS (S3)

17TH ANNUAL FAA COMMERCIAL SPACE CONFERENCE

WASHINGTON DC, FEBRUARY 2014



OUR COMPANY

Swiss Space Systems Holding SA

Robert Feierbach, Head of S3 USA Holdings, Inc. Washington, DC



VISION AND MISSION

- **The vision of S3 is to become the preferred launch system for small payloads of around 250kg**
- **The mission of S3 is to give access to space, at a lower cost, especially for fast and recurrent access**
- **The objective is to develop, manufacture, certify and operate a fleet of suborbital spaceships**



OUR COMPANY

- **Private company with \$250M budget until first launch in 2017**
- **Nearly 60 full-time employees in Payerne, Switzerland (Jan 2013)**
- **150 aerospace collaborators via industrial partners**
- **S3 assembles years of research, design, planning, testing and implementation from industrial partner's past work on European HERMES space shuttle program**
- **Built on existing elements with the agreement and the cooperation of those who have pioneered the industry over the last decades (over \$1B in R&D accessible to S3)**
- **S3 is the privatization and the implementation of an ACTUAL program**



PARTNERS AND SPONSORS (INITIAL EUROPEAN SOAR GROUP)

Partners



Technical Advisors



Main Sponsor





SMALL SATELLITE DEDICATED SOLUTION

Swiss Space Systems Holding SA

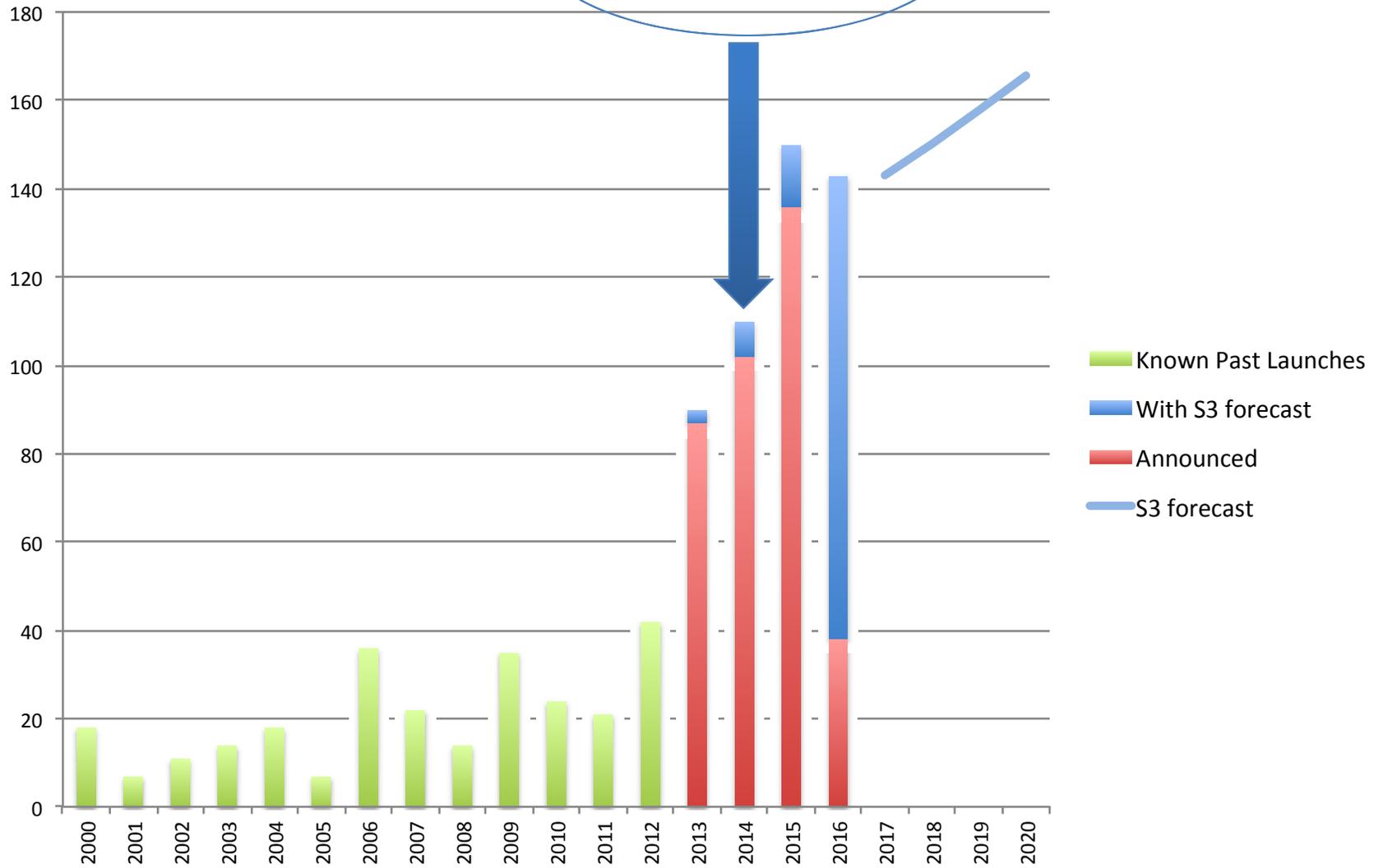
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SOAR: A LOW-COST THREE-STAGE SYSTEM



THE OPPORTUNITY

2014: over 100 satellites per year!





S3'S SOLUTION

Capture:

- **Flexibility and regional access**
- **Many launch 'windows'**
- **Standardization and low-cost platforms & small sat constellations**
- **Adequate pricing**

Enable and Boost:

- **Partner with developers, manufacturers & emerging space nations**
- **Understand end-users, research & academic centers**
- **Affordability and stepped-launch approach**
- **A to Z: stimulate the demand: new markets, NewSpace companies**
- **Integration and standardization**
- **Assurance schemes**

S3 CORNERSTONES

Affordability

Flexibility

Responsiveness

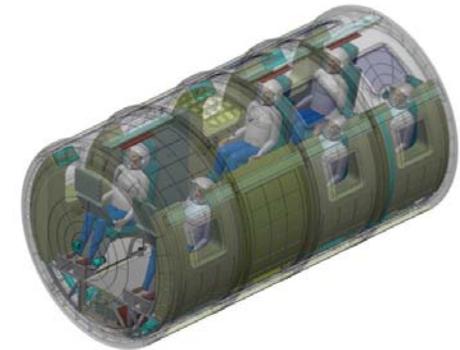
Recurrence

operationally responsive, low-cost launch capability

S3 PLATFORM: A SENSIBLE GROWTH APPROACH



SOAR Shuttle
commercial flights for
satellite deliveries



Pressurized manned
cargo module for
high-speed travel

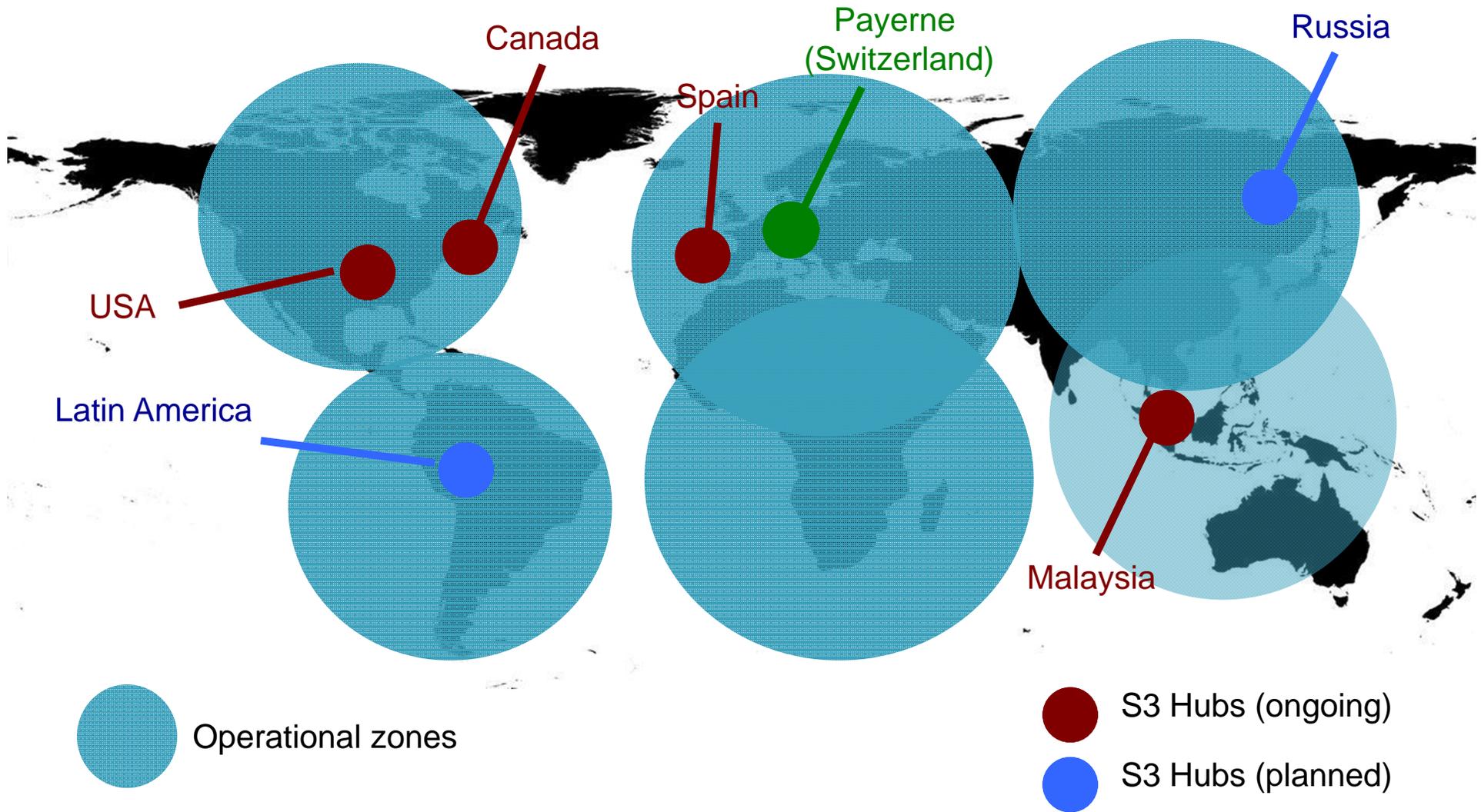
Micro-G Flights,
Infrastructure
management and
operations



**All phases generate
operational revenues**



S3 SPACEPORT DEVELOPMENT





THANK YOU

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