



SAAB IN BRAZIL

PAST, PRESENT AND FUTURE

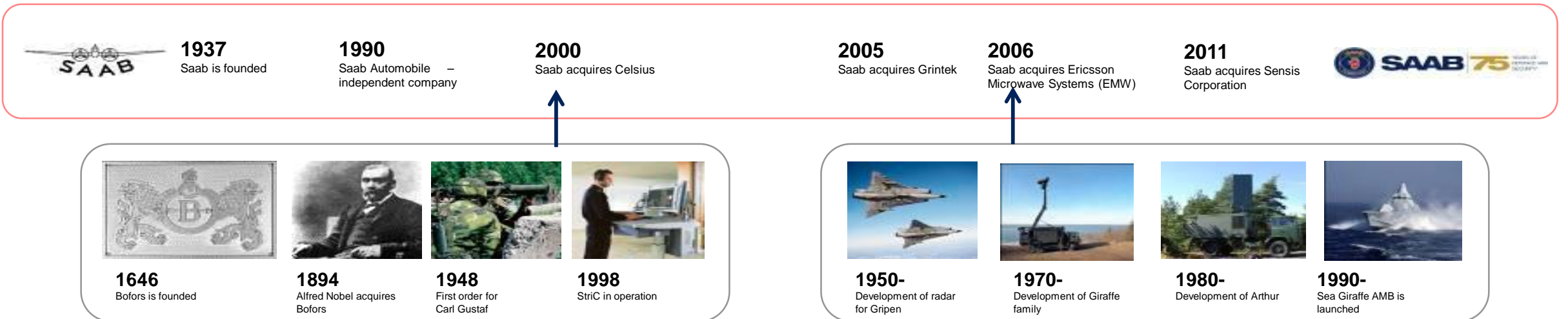
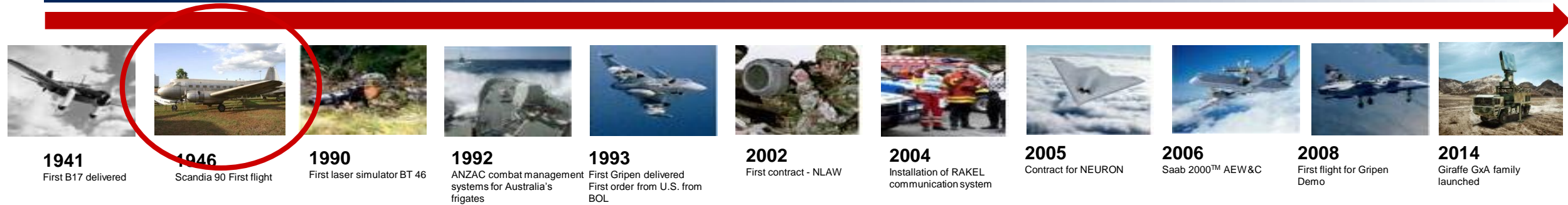
Pontus de Laval, CTO



PAST

1940-2014

AT THE FOREFRONT OF CHANGE

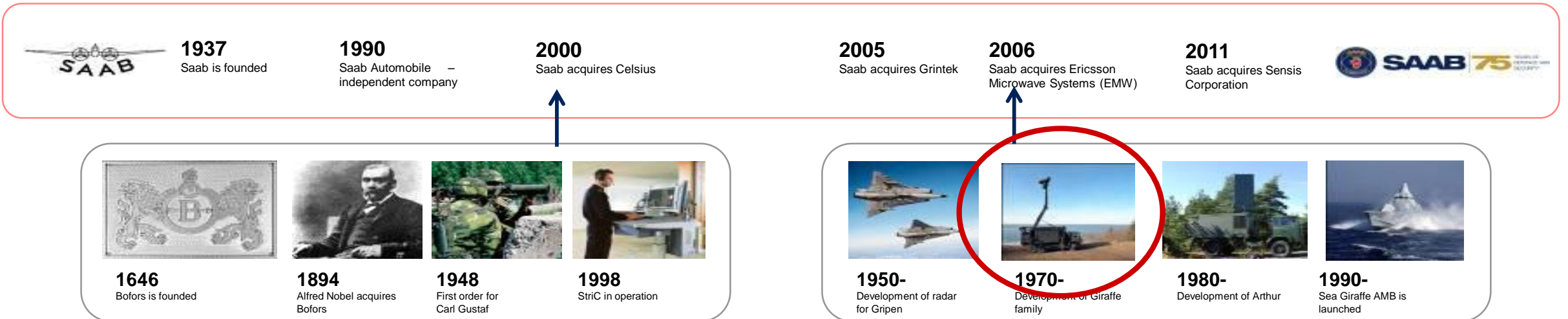
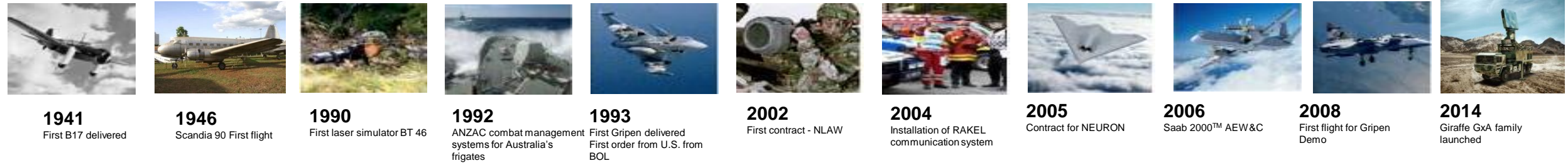


SCANDIA 90

- 18 aircrafts produced 1946-1954
- Aeroavias Barzil bought 4 aircrafts
- VASP bought 5 + 8 aircrafts
- Last flight 1969
- One aircraft still exists in the museum in Bebedouro



AT THE FOREFRONT OF CHANGE

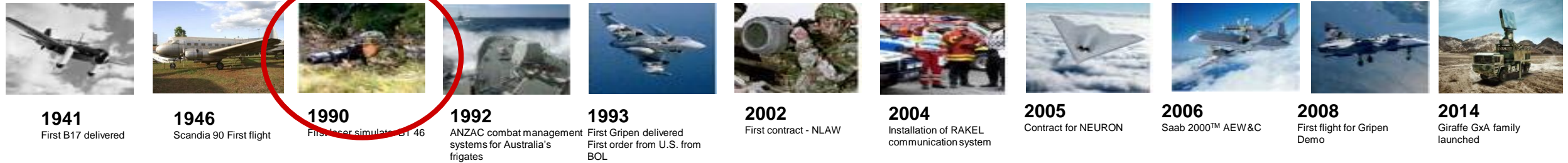


AIR DEFENCE RADARS

- Giraffe 50AT Air Surveillance radar (1989)
- Skyguard FC radars (tracking and surveillance) licence produced by Avibras in the late -80
- In use by the Marine Corps and Brazilian Army



AT THE FOREFRONT OF CHANGE



1937
Saab is founded

1990
Saab Automobile – independent company

2000
Saab acquires Celsius

2005
Saab acquires Grintek

2006
Saab acquires Ericsson Microwave Systems (EMW)

2011
Saab acquires Sensis Corporation



1646
Bofors is founded



1894
Alfred Nobel acquires Bofors



1948
First order for Carl Gustaf



1998
StriC in operation



1950-
Development of radar for Gripen



1970-
Development of Giraffe family



1980-
Development of Arthur



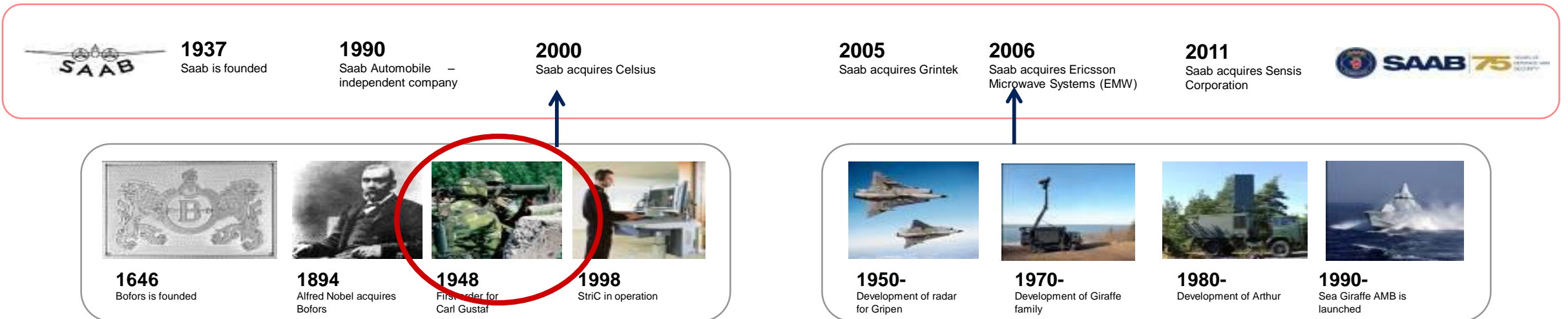
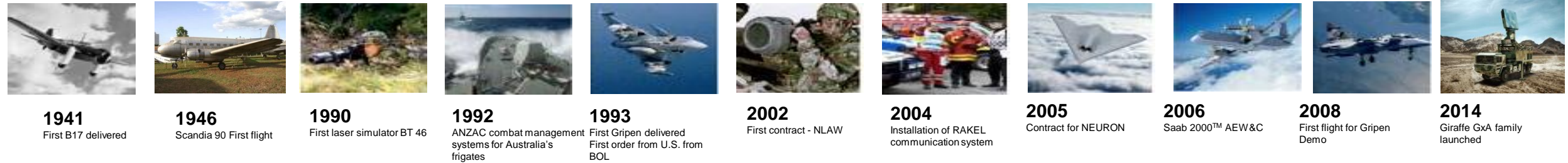
1990-
Sea Giraffe AHB is launched

LIVE TRAINING

- BT46 Introduced 1990
- In use in more than 20 countries
- Used by the Brazilian Army since -90



AT THE FOREFRONT OF CHANGE

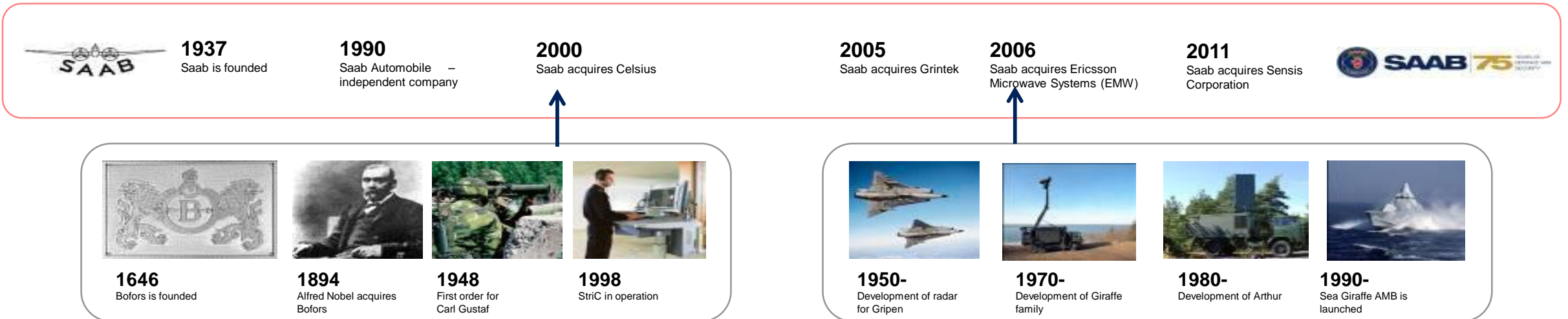
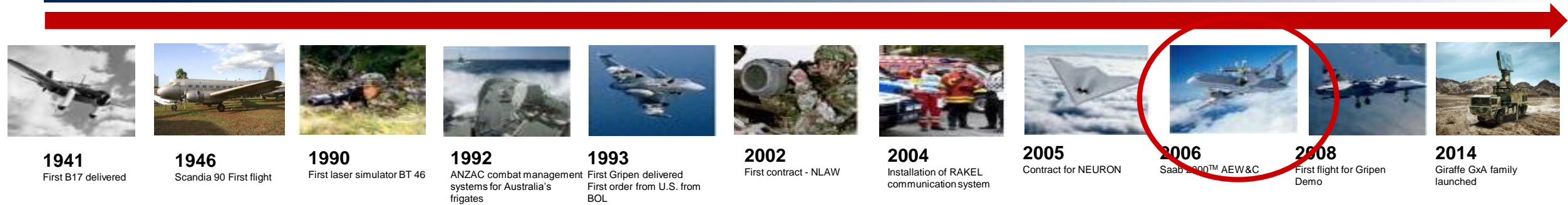


GROUND COMBAT

- Support weapons Carl Gustaf and AT4 introduced in the Brazilian army in the -90
- Anti tank weapon Bill used by the Brazilian Army since -90



AT THE FOREFRONT OF CHANGE



SIVAM

- Erieye radar part of the SIVAM project in the late -90
- First real network centric system
- Upgrade ongoing



PRESENT

2015

FX2

- 36 aircrafts ordered, first batch of three
- Joint development with Brazilian industry, e.g.
 - Avionics displays
 - Two seater version
- Extensive ToT with Brazilian industry, focus on the airplane and support & services



OTHER AREAS OF COLLABORATION

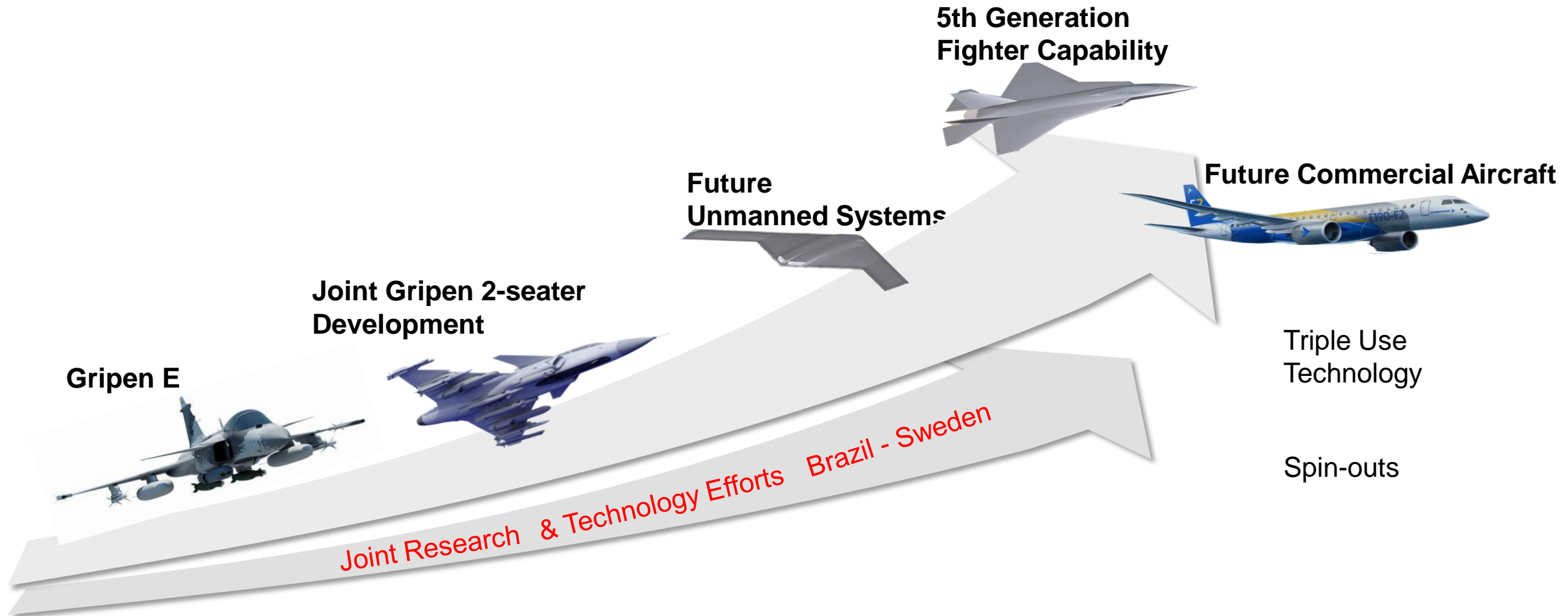
- CISB, Swedish Brazilian Research & Innovation Centre
- Traffic Management (ATM)
- Operation Centers (e.g. bus terminal Curitiba)
- Electronic Warfare (e.g. Comint for Sisfron)
- Innovation management (Brazilian Army)



FUTURE

2016-

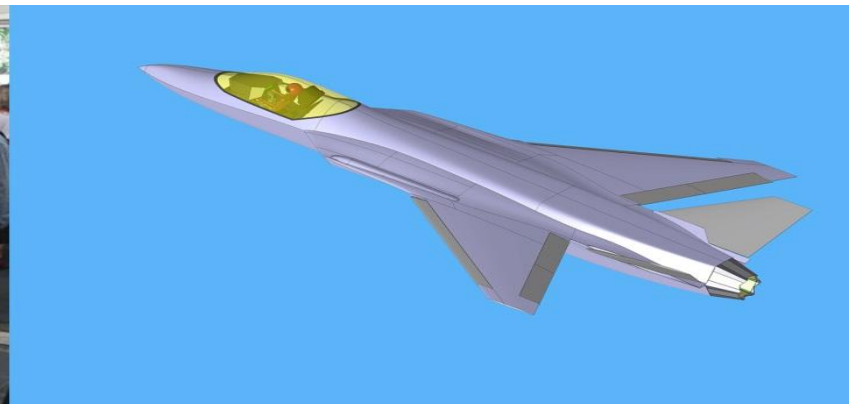
JOINT BRAZILIAN/SWEDISH R&D – VISION IN AERONAUTICS



WHAT WE HAVE ACCOMPLISHED SO FAR !

A flow of gradually more productive activities have verified the interest in bilateral cooperation. We have now reached a good status at low TRL (research). The challenge is to carry this further and include institutes and industries, with demonstrators and product development as further aims.

MoU for cooperation High level Meetings - Vinnova and ABDI	Swedish – Brazilian pre-study projects (Vinnova)	CISB founded in SP Swedish CISB office	Industrial Guest Research Scholarship - CNPq, CISB & Saab	Innovation Training for Defence and Aeronautics - CISB	SE-BR Research initiative 1 st Workshop ITA 500 + participants CISB Travel Grants	Swedish Endowed Prof Chair at ITA Workshops arranged by CISB, ITA, Innovair
2009	2010	2011	2012	2013	2014	2015



CISB AERONAUTICS COMMITTEE



High Level Group
for Brazilian-Swedish
Aeronautics R&D

The CISB Aeronautics Committee

Draft solutions for
high-level group tasks

Research projects
portfolio 30 project

Swedish Endowed Professor
Chair at Brazilian Airforce
Institute of Technology

Coordinate Swedish
Brazilian aeronautical
R&D guided by HLG

Initiated projects using
ongoing / financed
projects

Annual Workshops
Research Networks

Coordinate joint
calls, evaluations,
approvals and funding

Guest Researcher
Scholarship &
Exchange programs

Building institutional
relations between SE-BR
stakeholders

OTHER AREAS OF POTENTIAL COLLABORATION

- Traffic Management (e.g. remote towers and Sea Traffic Management)
- Command & Control (e.g. SoA)
- Electronic Warfare (e.g. Comint for Sisgaaz)
- Scenario and Technology forecasting (Brazilian Air force & Army)
- Mine hunting (Brazilian Navy)



SAAB

THANK YOU!

