

Industry 4.0 for Complex Products in Highly Specialized Organizations

Lisa Åbom, PhD
CTO Saab Aeronautics





Lisa Åbom, CTO, Vice President

PhD, Materials physics, Linköping University

MBA, Stockholm School of Economics.

Experience from conducting research, leading R&T/R&D organizations in various high-tech companies, and as a top level executive in the aeronautics industry.

Lisa.abom@saabgroup.com

Saab

- Swedish company within Security & Defence sector
- Around 16,000 employees
- Annual sales around €3 Billion, 23 percent invested in R&D



Gripen Fighter



TX Trainer



Global Eye

Saab & Industry 4.0

- Our production of the Gripen aircraft is highly specialized, with relatively small series and unique production steps.
- Industry 4.0 for us means to tailor the production to our specific needs, and that means to digitalize as much as reasonable, and using new technology when applicable:
 - Digital drawings (MBD fully implemented)
 - Robotics – cobots – enhanced operators
 - Augmented reality for production assistance

Product life cycle



Gripen A –
First order 1982
First flight 1988



Gripen C –
First order 1996
Delivery 2003



Gripen E –
First order 2012
First flight 2017



T7A – Red Hawk
Project start 2014
First flight 2016
Contract USAF 2018

1980

1990

2000

2010

2020

2040

2060

Relevant Trends

The digital
era



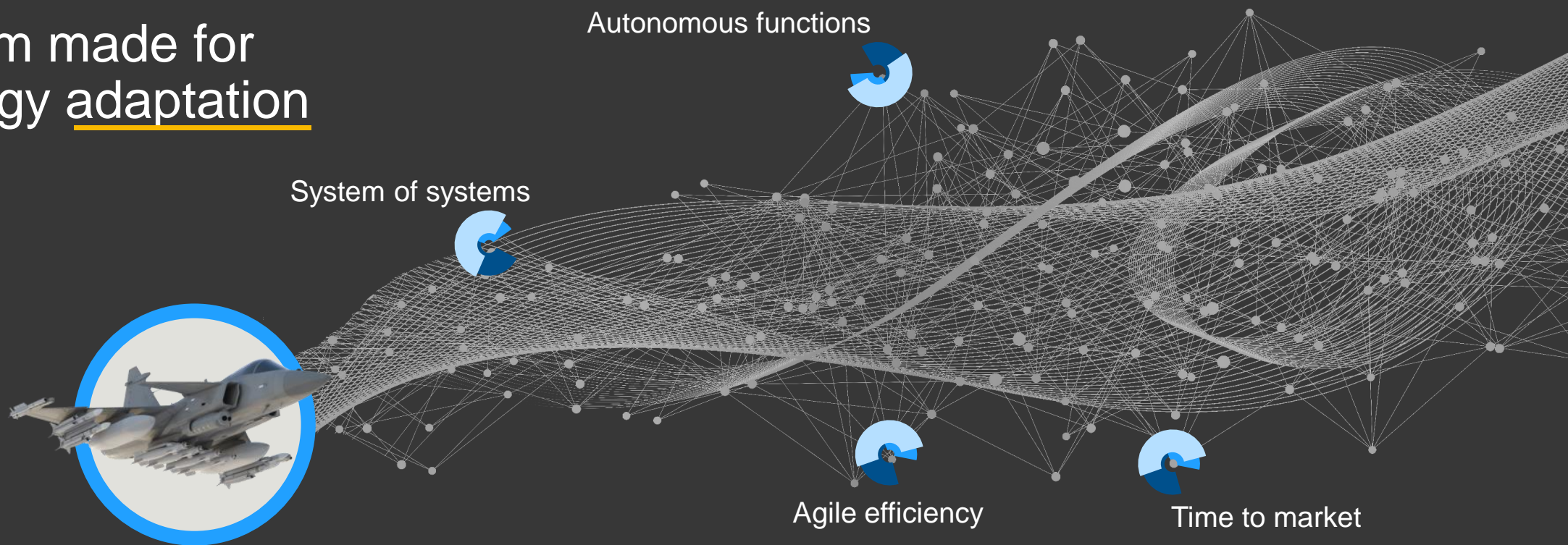
Security of
Supply



Speed of
change



A platform made for technology adaptation



The background features a large, dark, semi-transparent Saab logo on the left and the word 'SAAB' in a large, stylized, outlined font on the right. The logo includes a crown and a griffin. The word 'SAAB' is composed of multiple parallel lines, giving it a 3D effect. The entire scene is set against a dark, overcast sky.

Questions?

Lisa Åbom
