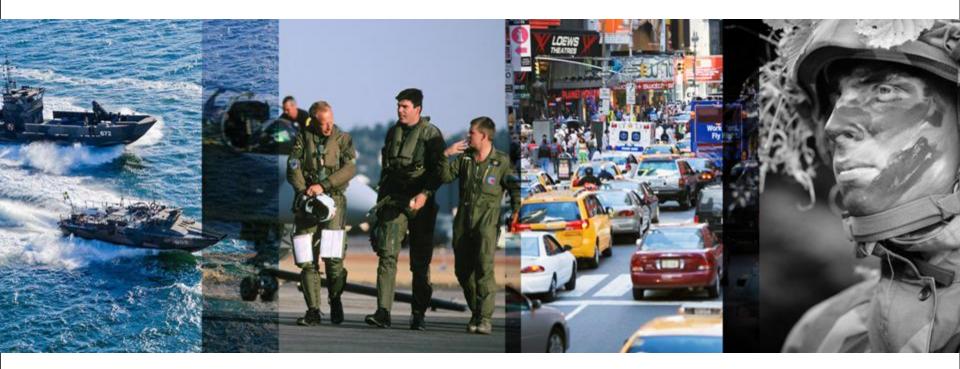


FÖRSVARSELEKTRONIKINDUSTRIN I DAG OCH I MORGON



Hans Holmberg September 25, 2014 Försvarets Historiska Telesamlingar 30 års jubileum

SAAB **ALWAYS AT THE FOREFRONT OF CHANGE**



1941 First B17 delivered

1979 First order - RBS 15

1990 First laser simulator BT 46

1992 ANZAC combat management systems for



1993 First Gripen delivered First order from Australia's frigates U.S. from BOL



2002 First contract NLAW





2004 Installation of RAKEL communication system





2008

First flight for

Gripen Demo



2005 Contract for NEURON

2006 Saab 2000™ AEW&C

2011 RBS 70 NG - launch

SAAB

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 2012 Saab acquires HITT

1646

Bofors is founded



1894 Alfred Nobel acquires Bofors



First order for

Carl Gustaf

1998 StriC in operation

1950-Development of fighter radar



1970-Development of Giraffe radar family





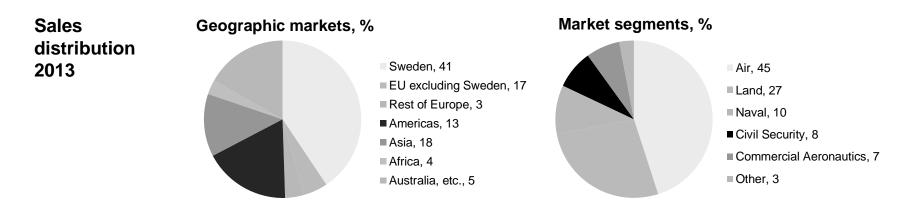
1990-Sea Giraffe AMB is launched



SAAB DEFENCE AND SECURITY

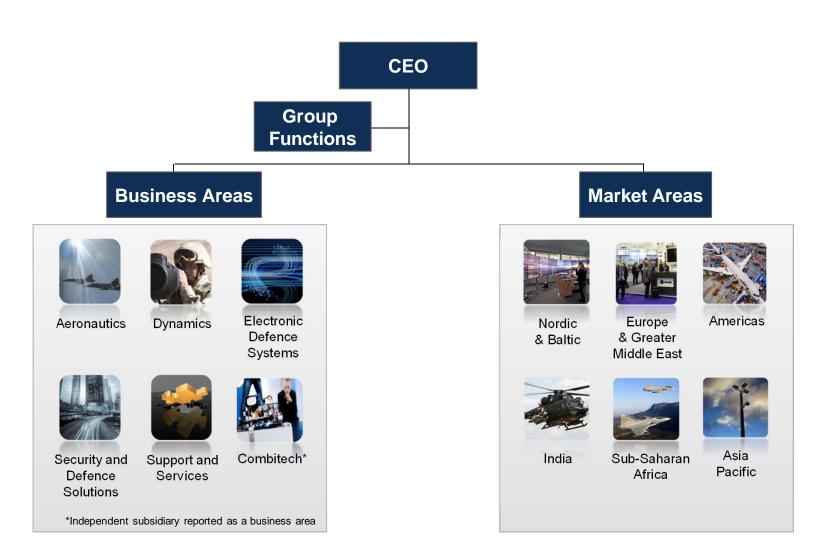
- World-leading solutions, products and services for military defence and civil security
- Sales 2013: MSEK 23,750
- 14,000 employees
- Local presence in 33 countries and customers in 100 countries worldwide
- Saab's B-share listed on NASDAQ OMX Stockholm's Large Cap list since 1998 (SAAB B)





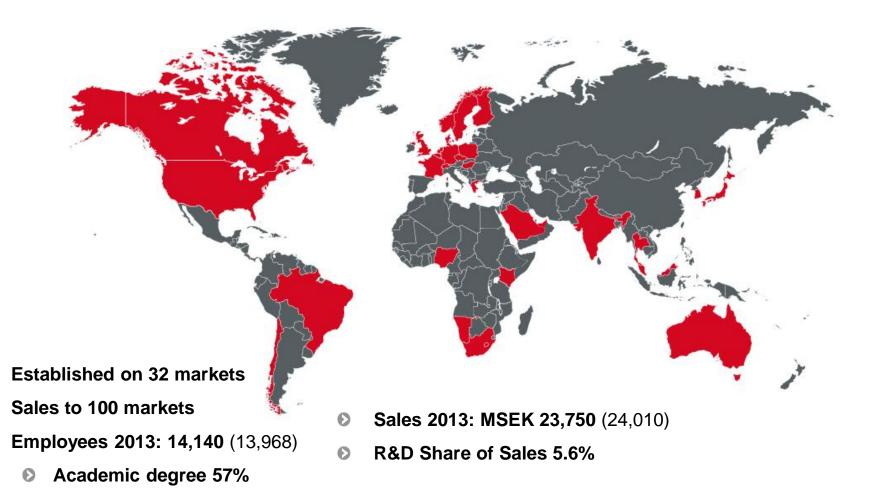


ORGANISATION





SAAB PRESENCE WITH PERSONNEL





Ø

Share of women 22%

Ø

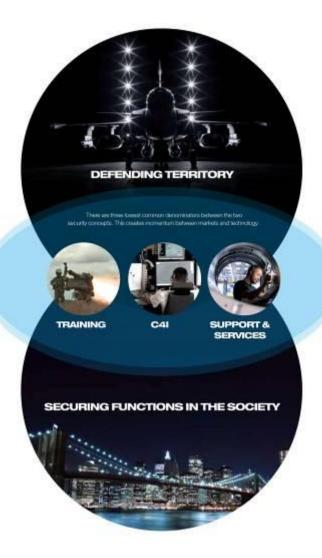
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MARKET AREAS



THE GAME HAS CHANGED



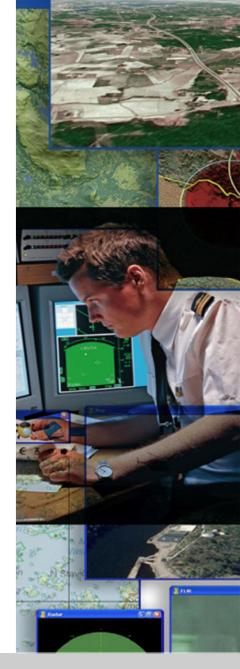
- From one customer to several customers
- International interoperability
- Off the shelf
- Defending borders and protecting flows



SECURITY AND DEFENCE SOLUTIONS **KEY CAPABILITIES**

World leader in:

- Naval system integration
- Maritime systems and traffic management
- Oritical system integration
- Sensor and weapon control
- Data and information fusion
- Live & virtual training
- Air traffic management





COMBAT SYSTEMS AND C4I SOLUTIONS

Sensors, weapons and communications into a single, highly-integrated combat management system



NAVAL COMBAT SOLUTIONS

IV Naval Combat System Solutions feature modular and scalable command and control and fire control for naval platforms ranging from the patrol boat to the most capable frigate

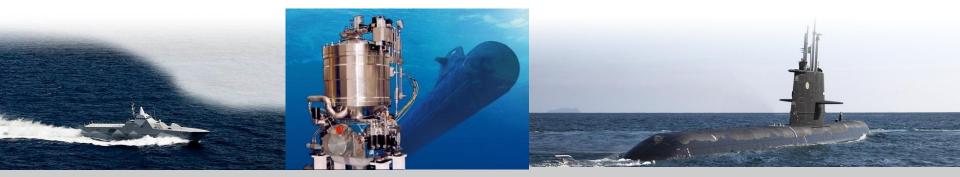




KOCKUMS PART OF SAAB

As part of Saab's commitment to strengthening our global Naval leadership, we have acquired Kockums in 2014.

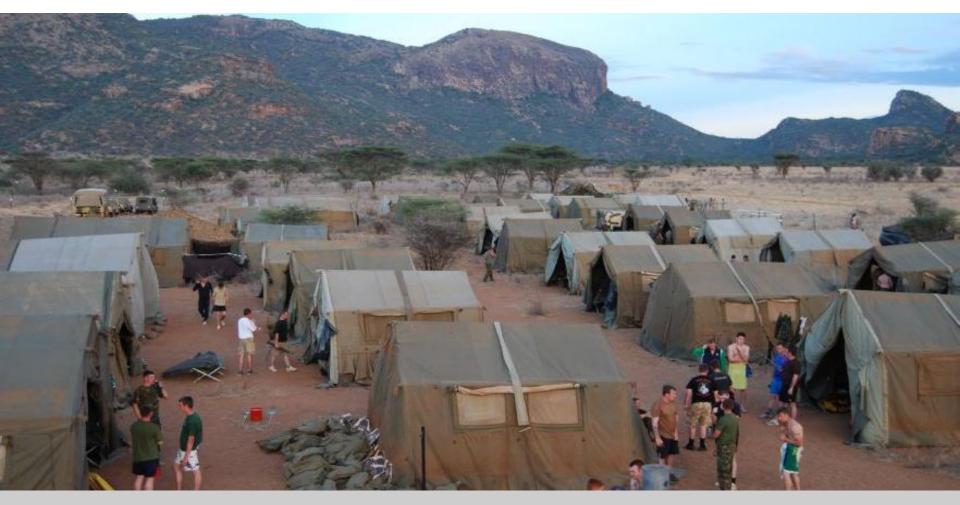
Saab Kockums provides design, construction and in-service support for advanced naval systems such as surface combatants and submarines to the Swedish Armed Forces and other customers worldwide. Other successful products are the air-independent Stirling system, mine countermeasure systems and submarine rescue systems. Naval Systems have operation in Karlskrona, Malmö, Muskö, and Singapore.





TRAINING AND SIMULATIONS

The Total Training Provider - from live to virtual





REDUCE AND MANAGE RISK





CRITICAL SYSTEMS & COMMUNICATION SOLUTIONS

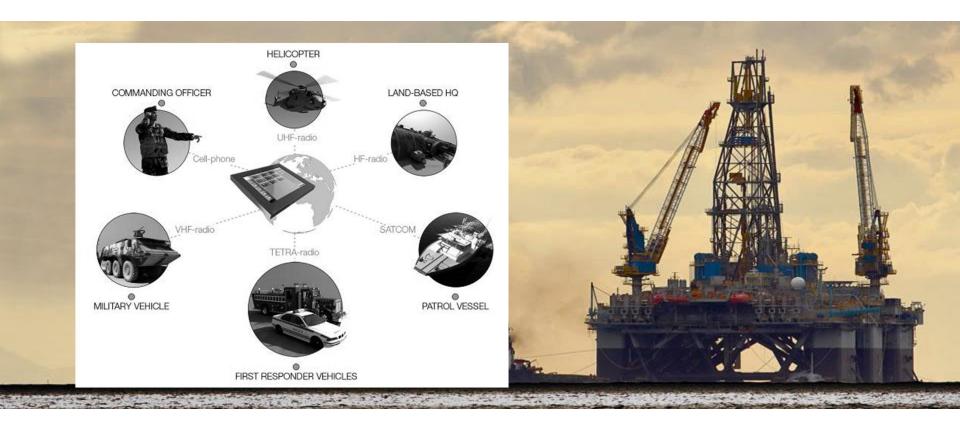
Systems and solutions to provide operation center and critical communication capability





TACTICALL OIL & GAS

Tacticall integrates all communication systems into one





SAAB TRAFFIC MANAGEMENT





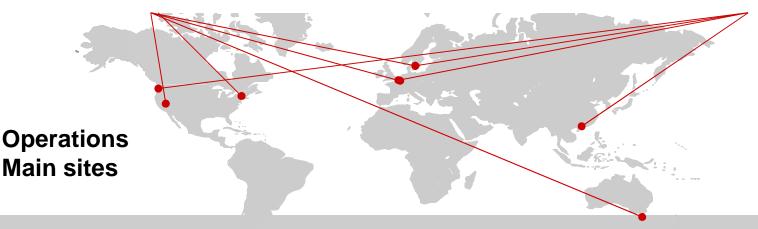


AIR TRAFFIC MANAGEMENT

- Airport Surface Safety
- Wide Area Surveillance
- Airport and Airline Automation
- Tower Automation
- Advanced Development

MARITIME TRAFFIC MANAGMENT

- Vessel Traffic Services
- Coastal Surveillance
- AIS Network Solutions, AIS transponders
- Port Management Solutions
- Hydrographic Software Systems





AIR TRAFFIC MANAGEMENT

Traffic management products and solution for air traffic control





AIR TRAFFIC MANAGEMENT



FACTS:

- 240 systems
 - 120 airports incl 9 of 10 busiest
- 60 customers in 40 countries
- Guide 2 million aircraft movements each month (24 % of the world's flights



MARITIME TRAFFIC MANAGEMENT

Systems and solutions to provide Automatic Identification, Port management, Hydrographic and Precision navigation





MARITIME TRAFFIC MANAGEMENT

FACTS:



4 of top 10 container ports guiding 85 million TEUs per year

- 108 ports or authorities in 18 countries
- 700 Hydrography customers with over 10,000 licenses sold

TEU: Twenty-foot Equivalent Unit



MARITIME SOLUTIONS MARKET SEGMENTS











INCREASED GLOBAL R&D EFFORTS

- R&D centre in India
 - Transfer identified programs and technologies
 - Aerospace, defence and urban innovation including civil security.
- Swedish Brazilian R&D centre
 - Stakeholders from the public, academia and industry to tackle key societal challenges with technology.
 - Transport and logistics, defence and security, and urban development with a focus on energy and the environment.
- Sea Gripen design centre in the UK
 - 12 18 month concept design phase
 - Using UK technical expertise in maritime jet operations









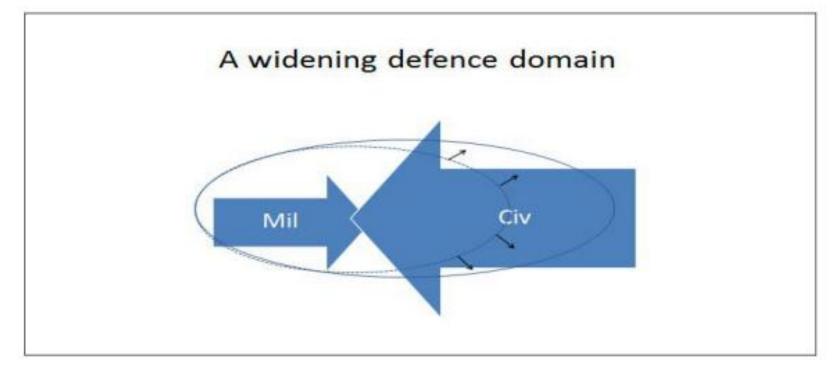
TOMORROW



A NEW INDUSTRY FRAMEWORK: NEW CONTEXT NEW TOOLS OF CONFLICT

- A WIDENING "DEFENCE CONTEXT"
- THE BUSINESS PERSPECTIVE STRATEGIC ADJUSTMENT RATHER THAN REORIENTATION
- NEW MARKETS NEW OPPORTUNITIES => BUT ALSO NEW COMPETITION
- THE GENERIC GEOGRAPHY OF FUTURE WARFARE - FLOW-CENTRIC, URBAN AND MARITIME
- THE BIG BLUR: SPACE & CYBER AS PRIME EXAMPLES OF CONVERGING SPHERES





More than ever, national defence structures are obliged to protect (and be able to attack) societal functions like a nation's physical infrastructure (including airports, ports, space assets), its information and communication networks, electricity grid, logistics functions, financial systems, commercial information, trade routes etc. Especially infrastructure is a sector that tends to be co-opted into modern national security thinking, thus the sector will be discussed more in detail in chapter 3. Cyber security will also be given much attention below as a symbol of a new war domain (– true or not, in March 2013 US officials even stated that cyber –attacks have replaced al-Qaeda as the greatest threat to US national security).



Security needs

The primary drivers in Saab's market areas are threat scenarios and security needs. This applies to the defence sector and civil society as well as to the grey zone in between. Understanding the development of, and overlap between, the two main dimensions of security policy is critical to also understanding the opportunities, breadth and potential in Saab's market.



The three areas of training, command and control, and maintenance are links as well as the lowest common denominator between these two security dimensions. For Saab, these areas originate in a traditional border-protecting military context, but are just as relevant and possible to implement in an urban-centred, flow-protecting environment.



THE BUSINESS PERSPECTIVE - STRATEGIC ADJUSTMENT RATHER THAN REORIENTATION

From a business perspective, what used to be seen as the defence market today encompasses more aspects of society than it used to. With a widening security concept there is an obvious defence domain connection when, for example, BAE team up with Vodafone to secure mobile communications, when Lockheed Martin or Raytheon engages in smart grid projects with electricity utilities or when Saab provides traffic management solutions to ports and airports. The same is true when defence companies engage in projects for civilian or dual-use communication satellites, or when they support land and maritime border security with equipment or training.

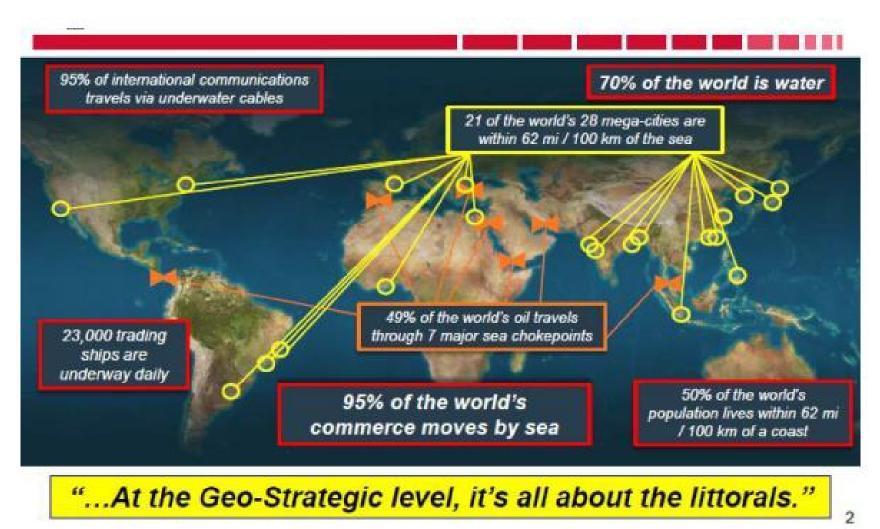


NEW MARKETS NEW OPPORTUNITIES => BUT ALSO NEW COMPETITION

Naturally, the resulting increase of the overlap or convergence between defence and civilian markets bring new competitors from the civilian side, partly defending their old turf, partly pursuing new opportunities with high-tech products and services now relevant to the military.



THE GENERIC GEOGRAPHY OF FUTURE WARFARE - FLOW-CENTRIC, URBAN AND MARITIME





THE BIG BLUR: SPACE & CYBER AS PRIME EXAMPLES OF CONVERGING SPHERES

Space

One domain where civil and military affairs have already been converging for many years is space, with both military and civil owners/operators operating a large number of satellites, most of which are used for both military and civil purposes and in both domestic and international contexts (GPS, weather, photos, communications etc.).

Cyber - remains prioritized business area

Together with the space domain, cyberspace is maybe the best example of an increasing overlap between civil and military affairs. In both these global domains, characterized by their abstract character with no natural or geographic borders and with outdated or non-existent international rules and regulations, military and civilian affairs converge in many ways.





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