



INSTITUTO  
TECNOLÓGICO  
DE AERONÁUTICA

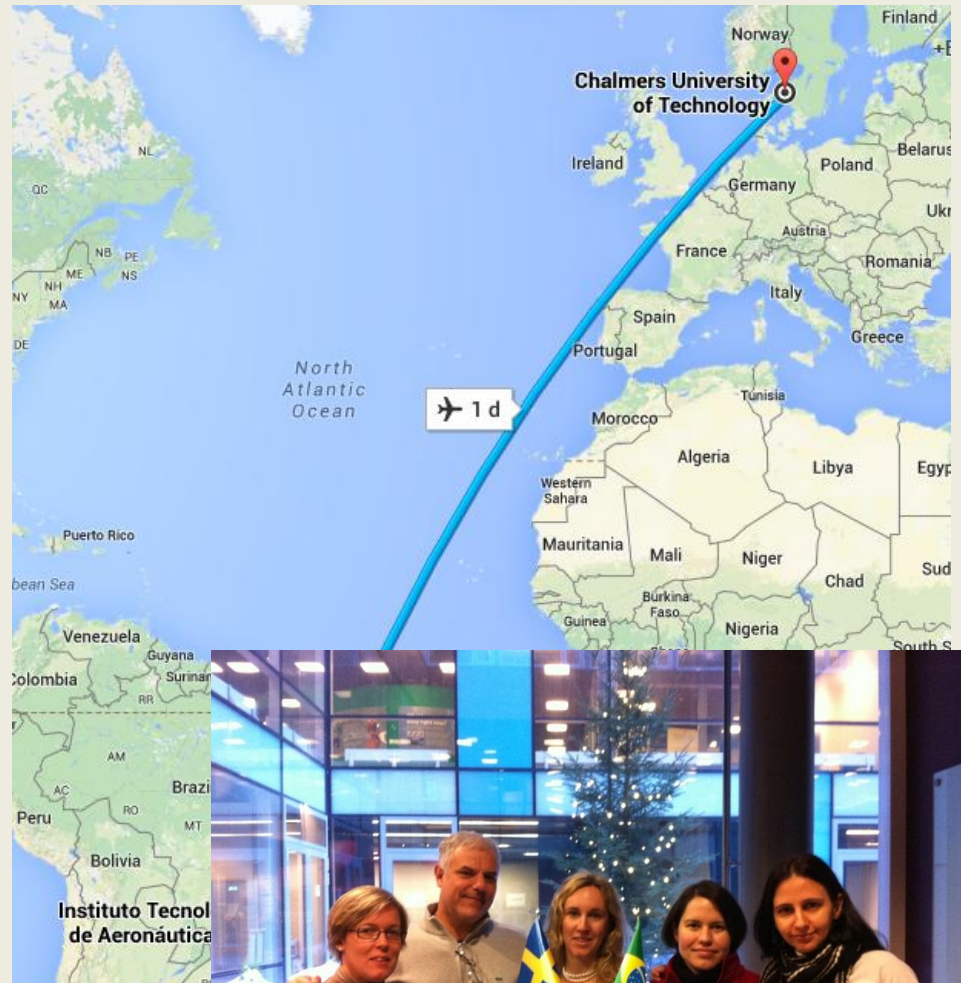
— 1950 —

**Emilia Villani**  
**November 11, 2014**



# Post-doc in Sweden

- 1<sup>st</sup> CNPq-CISB-SAAB Call
- From November 1, 2012 to October 31, 2013 at Chalmers University of Technology
- “Design of Fault-tolerant Systems: Consensus in Cooperative Transport Systems”
- With husband + son (6 years)



# Lessons learned...

- Work in close interaction with University group:
  - Model checking x fault injection

**Compromise between “give and take”**

- Participation in projects meetings from automotive industry:

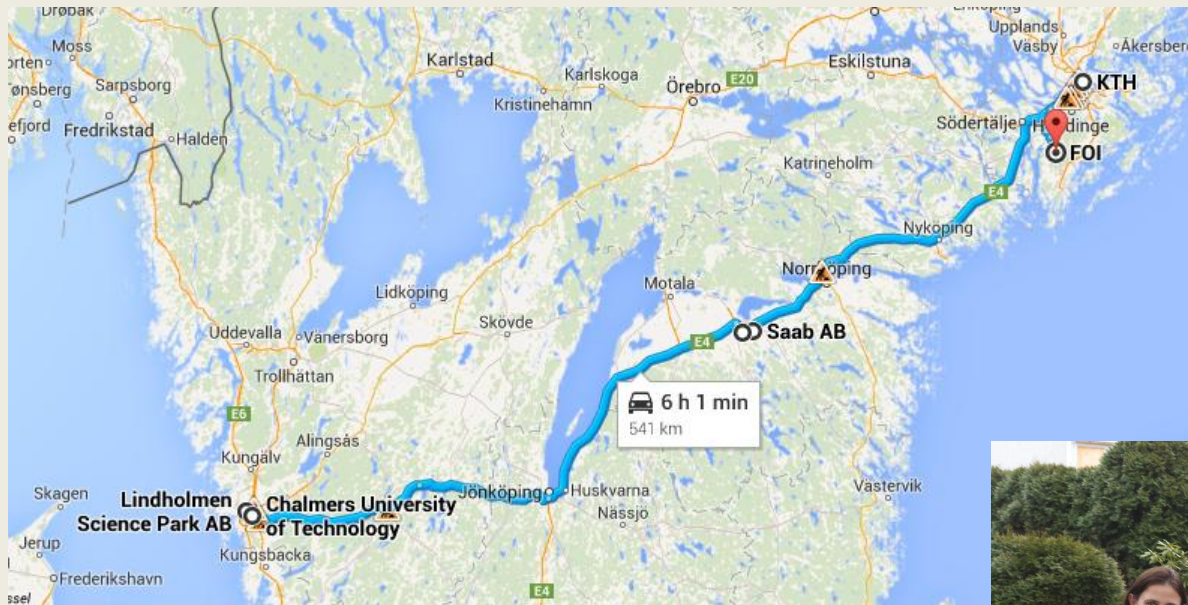
**Working with industry: Sweden x Brazil**

- Participation in International Conferences, SAAB/CISB meetings, Chalmers Department/Division meetings.

**Good balance between “working and networking”**

# Interaction with Sweden after 2013...

- ITA visit to the Sweden: Chalmers, Lindholmen SP, Linköping University, SAAB, KTH, FOI.



# Interaction with Sweden after 2013...

- Visit of Swedish professors to ITA
- Other submissions to CISB/SAAB/CNPq



Höganäs



- White paper about cooperation with Swedish University:

- Conceptual Design of Aircraft
- Product Development, Manufacturing and Materials
- Propulsion Systems
- Embedded Systems
- Communication Systems and Electronic Warfare

## ITA-Swedish Universities Collaborative Research on Aeronautics and Defence – ITA-SU

### A. INTRODUCTION

The ITA-SU is a framework program to support collaborative research projects between ITA and Swedish Universities mainly in the field of aeronautics and defence. The goal of ITA-SU is to generate technological knowledge and capacitate human resources to develop innovative solutions for aeronautics and defence stakeholders.

This proposal is grounded in the framework agreement for defence cooperation between Brazil and Sweden, signed on April 3rd, 2014, by the Defence Minister of Sweden, Karin Enström and the Defence Minister of Brazil, Celso Amorim. This agreement reaffirms the intentions of collaboration indicated in the 2009 Plan of Action of the Sweden-Brazil Strategic Partnership. It is also related with the Additional Protocol on Innovative High Technological Industrial Cooperation, signed in 2009 between the two countries, which affirms a shared interest to strengthen high technological cooperation.



# Interaction with Sweden after 2013...

- Workshop in Aeronautics and Defence at ITA



**Total: 410 participants:**

**U: 247 participants, 40 universities and institutes**

**I: 129 participants, 46 companies and associations**

**G: 26 participants, 17 organizations**

**N: 8 participants, 2 (CISB, FCMF)**

# Questions?

