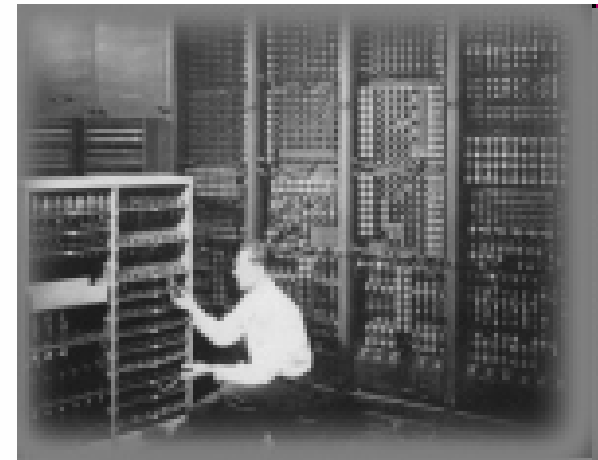SAF-SW course: 6 years of experiences

Software Safety Assessment Workshop

EUROCONTROL

- Created in 2007
- NATS
- Target population
  - Safety practitioners
  - Software practitioners
- Eye opener, no cut and paste solution
- The answer is:

It depends!

ATM Software Safety Assessment

DAY/TIME	09:00	10:00	12:00	13:00		17:00
Monday		Session 00 Welcome	Session 01 Software & Safety	Session 02 Example Accidents	Session 03 Software Impact on Safety - Exercise	Session 04 Software & Safety Lifecycles
Tuesday	Session 05 Software Safety Planning	Session 06 System & Software Requirements	Session 07 Assurance Levels	Session 08 Requirements - Exercise	Session 09 Software Safety Assurance	Session 10 Introduction to Safety Case
Wednesday	Session 11 ESARRs – SAM – SWAL			Session 12 Software Standards and Software Standards Exercises		Session 13 Audits, Surveys & Reviews
Thursday	Session 14 SW Supply Mod & Contracting f assurance			16 Study		
Friday	Session 1 Major Case Study Continued		Debrief			

New Lecture:

More about software safety assessment

- Since 3 years only 2 times/year
- ED-109 A
- New lecture: More about
  - Software and SMS
  - Contracting for Assurance
  - Contracting: Practicalities
  - COTS NDI Legacy and Maintenance
  - Software Safety Assurance System
  - Safety Case

About the participants

- Mainly ANPS

- 50/50 **S**oftware – **S**afety background

- Nearly no ATCO

- Over all Results

Overall Result:

Overall Result:	1	2	3	4	5	6	7	8	9	10	11
Overall Result:	89	85	82	84	88	79	91	88			
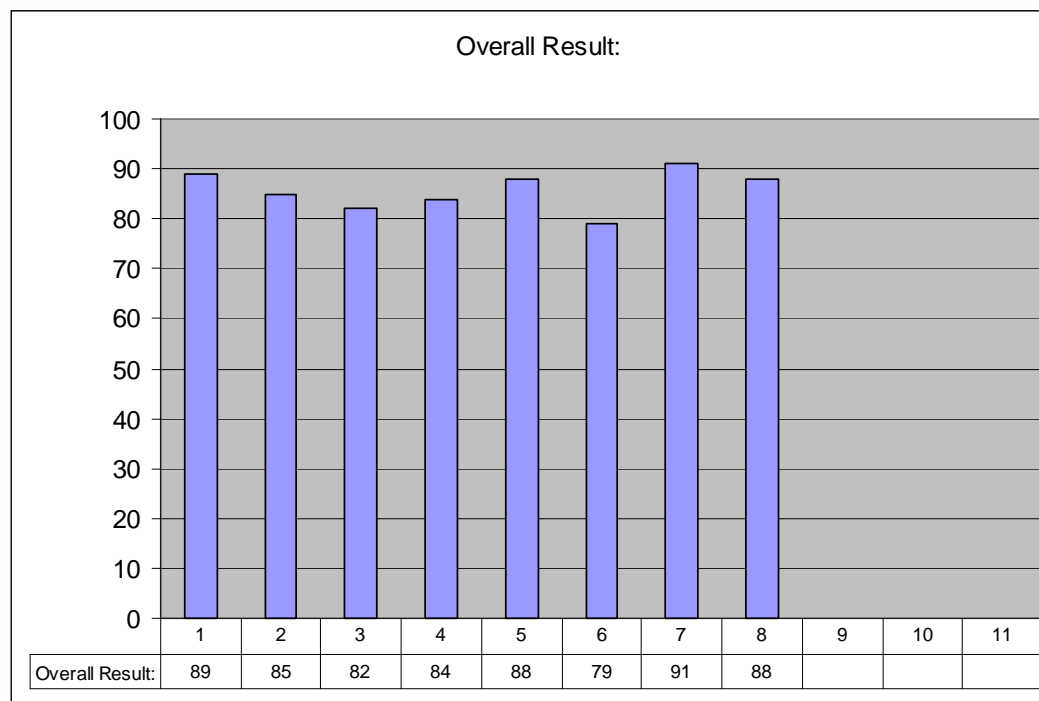
What Went Well?
What Can We Improve?

- Group mix
- Cost and Legacy: no real answer
- Very complex documentation (standards)…

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- Too fast on safety or Too fast on software
- Use of non ATM examples for exercises

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- Can't do it alone!
- What after? Workshop

Software Safety Community

- SAF-SW community

- Does not work…
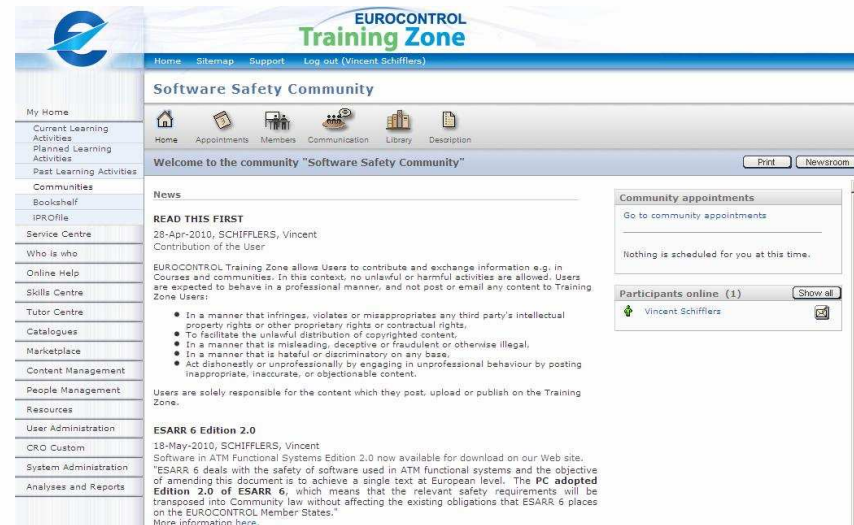
- That works!!!

- On site about 90 participants

- Online about 30 participants

- You made it! Thank you

- **Less demand for SAF-SW**
- **Software safety workshops big successes**

- **Training:**
  - What are the needs
  - How can we help/support you?

My conclusions

- Software & Safety still an issue

- Focus: your needs

- How can we (your feedback)