



**AUTOMOTIVE SPIN
ITALIA**

**8° WORKSHOP ON
AUTOMOTIVE SOFTWARE**

Milano, 17 February 2011



**AUTOMOTIVE SPIN
ITALIA**

8° WORKSHOP ON AUTOMOTIVE SOFTWARE

INTRODUCTION

Giuseppe Lami – CNR/ISTI

Here Once Again...

The New York Times

January 21, 2011

.... the **Chevrolet Volt** plug-in hybrid uses about **10 million lines** of computer code to shunt power seamlessly among the car's battery pack, power inverter, drive motor, gas engine, generator and other subsystems.

By comparison, **Boeing's** new 787 Dreamliner relies on a mere **8 million lines of code**.

Vehicle – Smartphone connection

Apps downloadable for:

- car locator;
- car lock;
- inquiry about the car status;
- enhancing vehicle performance (i.e. tyres inflating management);

Automotive SPIN Italia: objectives

- Sharing knowledge, experiences and innovation among members
- Promoting co-operation between industry, Accademia and Certification Bodies for SPI in the automotive field
- Promoting improvement opportunities

Automotive SPIN Italia

- Organization is very lean
 - President and management board
 - membership = being part of the mailing list
 - Free membership
- Website (www.automotive-spin.it)
- Workshops (1-2 per year): interactive and informal context
- Establishment of Working Groups on specific topics of interest



Activities Report

June 2010 – January 2011

- Editorial activity:
 - ASAI-WG paper @ Int.l SPICE Conference 2010
- Metrics - WG (by Luigi Buglione)
- ISO/IEC 15504 Part 10

8° Workshop on Automotive Software

Thanks to:



Embedding
Technology



MANAGING RISK



09:45 U. Schiara (*Bitron*) – Cost of quality with Automotive SPICE®

10:15 V. Lomi (*Intecs*) – AUTOSAR Conformance Testing

10:45 M. Maglio (*Skytechnology*) – Software Embedded Integration Testing

11:15 COFFEE BREAK & NETWORKING – Offered by the Workshop Sponsors

11:45 M. Di Natale (*Evidence*) – Integration of heterogeneous model in automotive systems design

12:15 **ROUND TABLE** – Open Issues in Automotive Software Development and V&V

Moderator: Edoardo Sivera (*Iveco*)

Participants: S. Braidì (*MetaSystem*); F. Falcini (*Intecs*); A. Mitidieri (*Fiat Auto*); F. Iosca (*Bitron*)

13:10 LUNCH BREAK – Offered by the Workshop Sponsors

14:10 M. Müller (*Kugler Maag*) – Functional Safety, Automotive SPICE® and Agile Methodologies

14:40 G. Lami (*ISTI-CNR*) – ISO/IEC 15504-10 Safety Extension vs. Automotive SPICE® & ISO 26262

15:10 A. Piovesan (*CRF*), J. Favaro (*Intecs*) – Experience with ISO 26262 ASIL Decomposition

15:40 COFFEE BREAK & NETWORKING – Offered by the Workshop Sponsors

16:10 L. Buglione (*Engineering*) - Metric Cards: a Balanced Set of Measures ISO/IEC 15504 compliant

16:30 **ROUND TABLE** – Emerging Safety Issues in Automotive Software

Moderator: John Favaro (*Intecs*)

Participants: R. Davico (*DNV*); L. Pavani (*RINA*); L. Ricci (*Magneti Marelli*); T. Spinelli (*Brembo*);

17:30 Workshop Closure

Do not forget:

- To sign the registration form
- Questionnaire (before leaving)