SAE, ITC AND IBIS

EPEPS IBIS Summit

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San Jose, California

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AGENDA

1. SAE INTERNATIONAL OVERVIEW

2. SAE INDUSTRY TECHNOLOGIES CONSORTIA (ITC)

Mission Statement SAE International is a global body of scientists, engineers, and practitioners that advances self-propelled vehicle and system knowledge in a neutral forum for the benefit of society.

Vision SAE International is the leader in connecting and educating engineers while promoting, developing and advancing aerospace, commercial vehicle and automotive engineering.

SAE INTERNATIONAL

- Maintains more than 11,000 ground vehicle, aerospace and aerospace material specifications standards. All standards are industry consensus standards with the participation of all stakeholders

- Offers more than 200 professional development classroom courses and 90 e-learning products

- Publishes or co-publishes hundreds of technical and historical books, CD-ROMs and Web-based products

SAE INTERNATIONAL

SAE International is a global association committed to being the ultimate knowledge source for the engineering profession. By uniting over 148,000 engineers and technical experts, we drive knowledge and expertise across a broad spectrum of industries. We act on two priorities: encouraging a lifetime of learning for mobility engineering professionals and setting the standards for industry engineering. We strive for a better world through the work of our philanthropic SAE Foundation, including programs like A World in Motion® and the Collegiate Design Series™.

Aerospace

Commercial Vehicles

Automotive

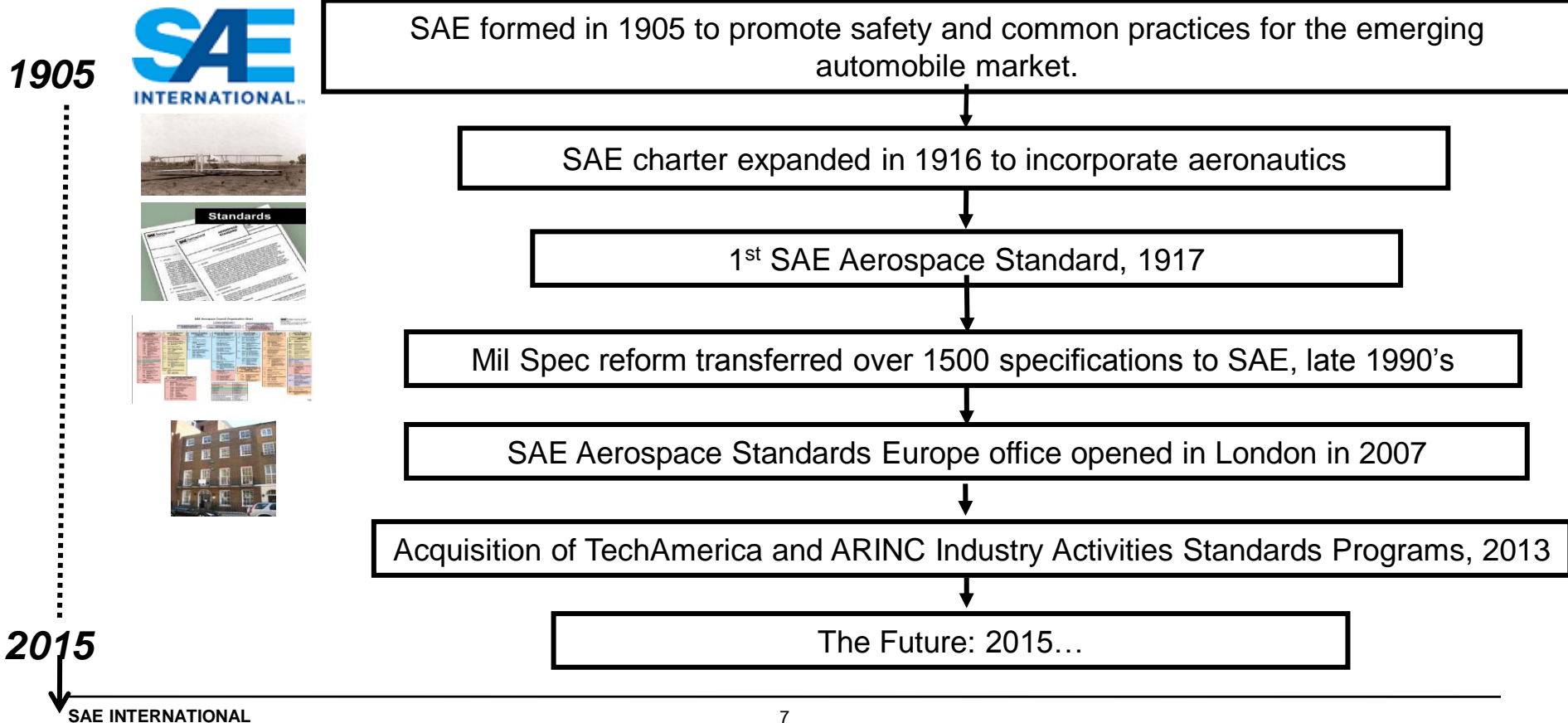**World Headquarters – Warrendale PA, USA**

Automotive Headquarters – Troy MI, USA

Aerospace Standards – Washington DC

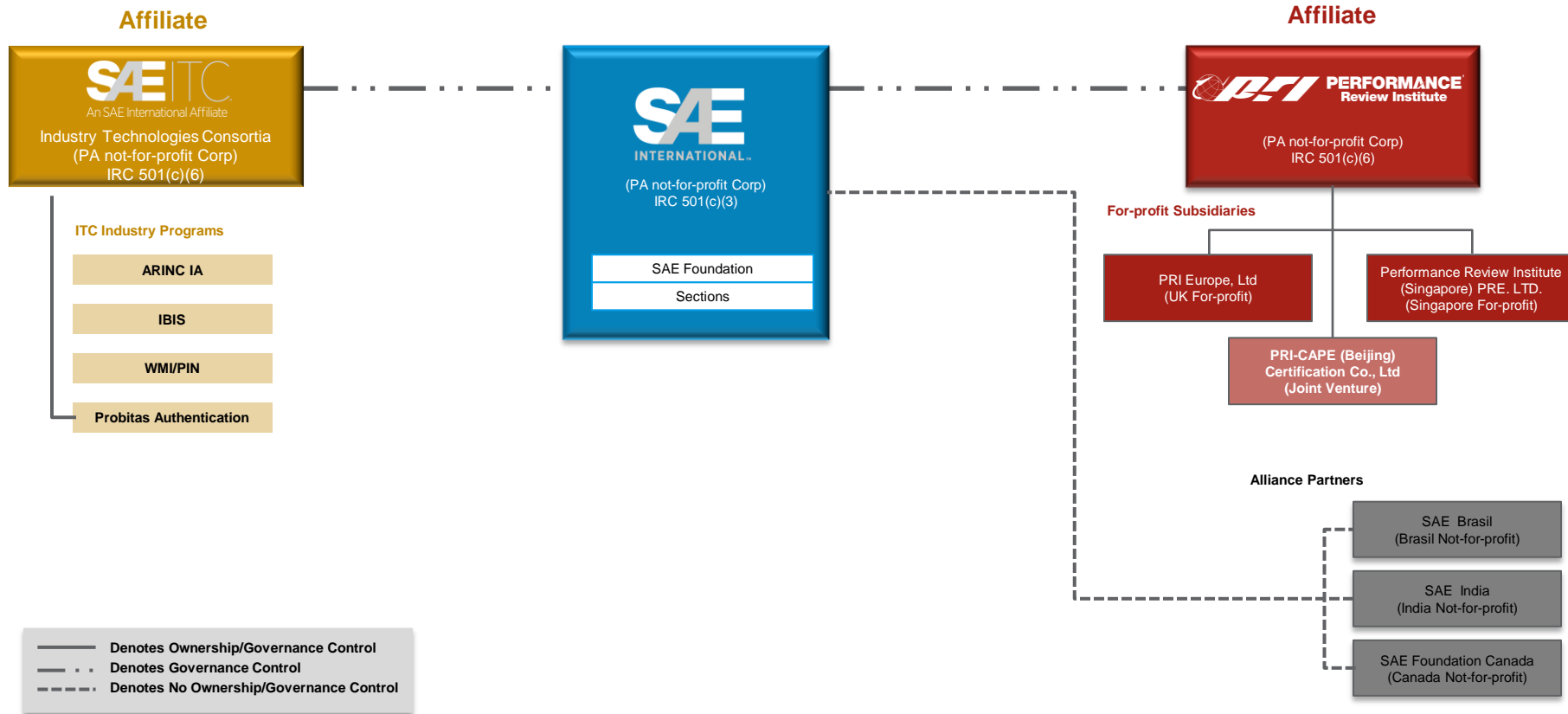**Aerospace Standards Europe – London**

SAE China - Shanghai

SAE Standards History – and Future …..

1905

SAE formed in 1905 to promote safety and common practices for the emerging automobile market.

SAE charter expanded in 1916 to incorporate aeronautics

1st SAE Aerospace Standard, 1917

Mil Spec reform transferred over 1500 specifications to SAE, late 1990's

SAE Aerospace Standards Europe office opened in London in 2007

Acquisition of TechAmerica and ARINC Industry Activities Standards Programs, 2013

The Future: 2015…

2015

SAE INTERNATIONAL

SAE INDUSTRY TECHNOLOGIES CONSORTIA (ITC)

SAE Enterprise
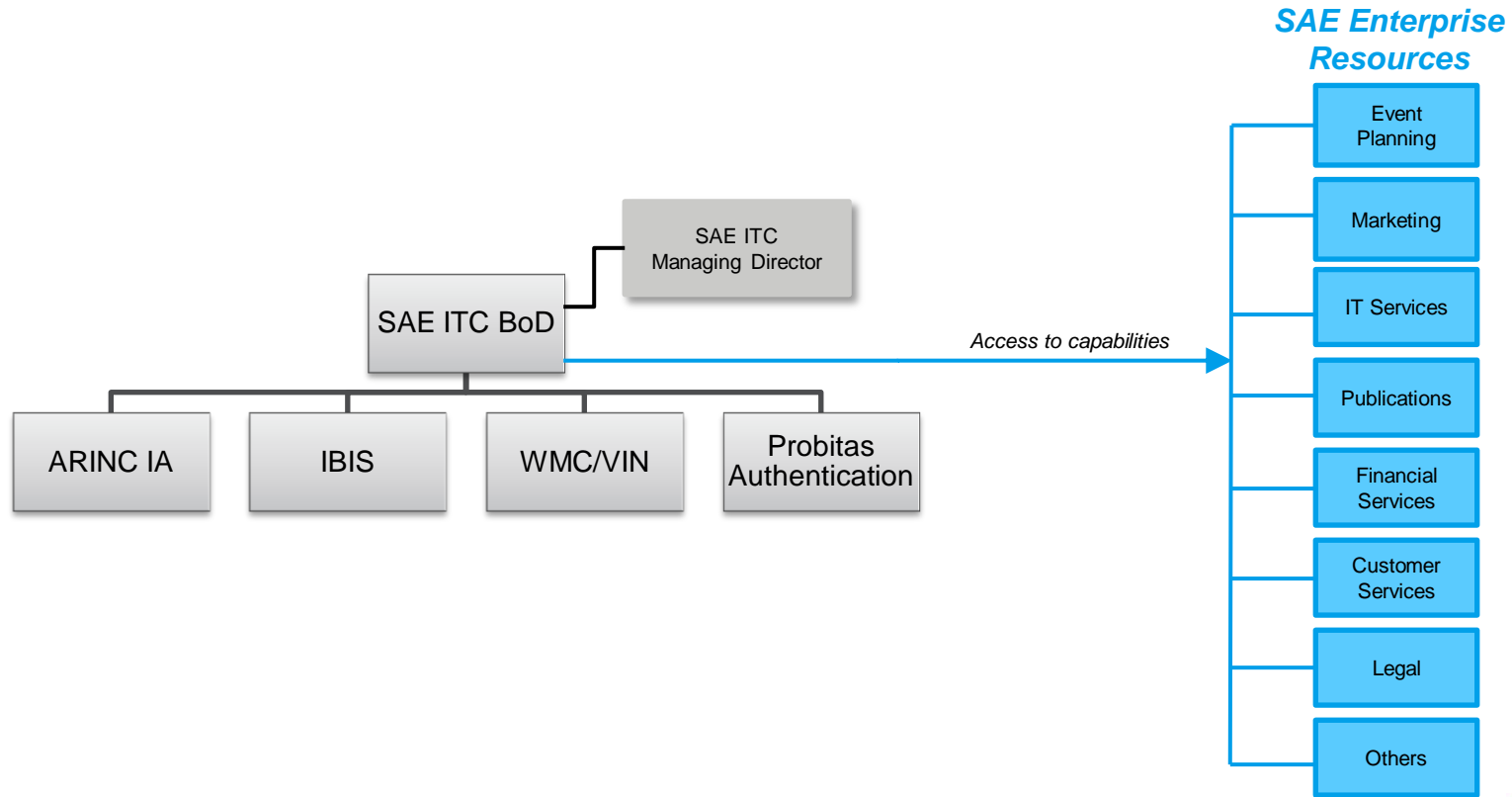
SAE ITC Framework

- The <u>SAE Industry Technologies Consortia (ITC)</u> is a not-for-profit membership organization comprised of participant programs that is a flexible, convenient and cost-effective alternative to incorporation

- The ITC provides a unique framework within which clients create much needed solutions to technical and business problems

- The ITC Participant Agreement allows the ITC to provide benefits/services to participant groups (provided the group aligns with the ITC's mission and exempt purpose)

SAE ITC Framework

- Each client maintains their desired degree of autonomy, flexibility and control while benefiting from the ITC's comprehensive benefit/service capabilities including
  - Protection of the ITC legal umbrella upon signing the Participant Agreement allowing participant programs to enjoy the legal protections and insurance benefits of operating within an incorporated, fully insured, not-for-profit organization
  - Tax exempt status immediately upon signing Participant Agreement (provided group aligns with ITC's mission and exempt purpose)
  - Administrative services, accounting support, annual audit, tax filing, insurance, website, publishing, IT support, office address, marketing, etc.

- Participant groups realize value from the SAE ITC by using its comprehensive management and operational support to realize greater efficiencies allowing the industry groups to focus on their respective technologies, programs, goals and objectives while operating within the SAE ITC infrastructure and legal framework.

SAE ITC Framework and Resources

SAE Enterprise Resources

- Event Planning
- Marketing
- IT Services
- Publications
- Financial Services
- Customer Services
- Legal
- Others

SAE ITC Managing Director

SAE ITC BoD

Access to capabilities

ARINC IA

IBIS

WMC/VIN

Probitas Authentication

SAE ITC Governance

- **Governance**
  - Governed by Articles of Incorporation and Bylaws
  - Managed by a Board of Directors, a President, Secretary/Treasurer and Managing Director
  - Affiliated with SAE International

- **Provisions**
  - The SAE ITC provides:
    - A legal framework (liability)
    - Fiscal oversight (accounting)
    - An appeals mechanism, if necessary
    - Guidance on development of policies, procedures
    - Connection to SAE for other services (publishing, marketing, etc.)

SAE International / SAE ITC Comparison

	SAE International	SAE ITC
Primary Customers	Individuals	Companies / Organizations
Products	Membership Papers Standards	Consortia Standards Industry White Papers Research Certification
Process	Open	Closed
Revenue Streams	Dues Purchases	Fees (Pay to Play)
Structure	501 (c) 3 Educational / Scientific	501 (c) 6 Trade Association / Business Oriented
Governance	Board and Operating Boards/Committees	Small Board Participants Groups

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SAE ITC Programs

ARINC INDUSTRY ACTIVITIES™

ARINC Industry Activities (ARINC IA) organizes and oversees the activities of the Airlines Electronic Engineering Committee (AEEC), Avionics Maintenance Conference (AMC), and the Flight Simulator Engineering & Maintenance Conference (FSEMC). The AEEC, AMC and FSEMC creates value that is substantial and widely recognized for airlines, aircraft and flight simulator manufacturers, avionics suppliers, training providers, and other stakeholders by cooperatively establishing common technical standards and developing shared technical solutions for complex airline industry challenges that no one organization could develop independently. www.aviation-ia.com

I/O Buffer Information Specification (IBIS) Open Forum is dedicated to setting electronic data automation protocols, specifications and standards (I/O Buffer Information Specification) to enable integrated circuit vendors to provide information about input/output buffers of products to prospective customers in a consistent format.
This Committee regularly meets to review the IBIS technical development, IBIS utilities development, IBIS parser/checker development, and for exchanging general information regarding good modeling practices. www.eda.org/ibis/

Off-Road Vehicle Identification Number (PIN/WMC) System
A standards consortium and a database for managing Vehicle Identification numbers (VIN) numbers for off-road recreational machines. http://www.sae.org/standardsdev/groundvehicle/pin.htm

Probitas Authentication is an Registration Management Committee recognized Auditor Authentication Body and has been approved authenticate Aerospace Quality Management System (AQMS) auditors in accordance with the certification scheme requirements. www.itc.sae.org/probitas/

SAE INTERNATIONAL

QUESTIONS?

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