SAE Overview

Mobility, Advanced

SAE is a trusted partner when the right advice matters most, the gateway to life-changing connections, and a mountain of collected knowledge. Through it, our contributors make the lives of billions safer, more affordable, and more sustainable, exemplifying the impact that future engineers aspire to.

Meet SAE

Mobility, Advanced™

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Our History

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1905
SAE® is founded in New York City

1906
First SAE technical meeting

1912
First SAE Standard published

Wright Aeronautical Laboratory
ORVILLE WRIGHT, DIRECTOR
Dayton, Ohio

1916
Orville Wright becomes a member of SAE

1917
First SAE aerospace standard published

1936
First SAE National Aircraft Production Meeting

1974
SAE moves headquarters to Warrendale, PA

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Our History

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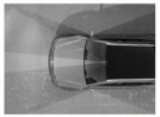
1976
Collegiate Design Series established with Mini Baja event

1986
SAE Foundation℠ formed

1990
A World in Motion® is established as science program for 4th-6th grade students

2009
SAE J1772™ Standard released defining charging connector for electric vehicles



2014
SAE J3016™ Standard released defining levels of automated driving

2018
SAE partners with industry to advance hybrid/electric aircraft propulsion

2019
SAE and industry partners form AVSC™ to address autonomous vehicle safety

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SAE International Roles & Functions

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- ***ROLES IN INDUSTRY:*** Professional Association, SDO, Publisher, STEM Educator, Professional Workforce Development, Knowledge & Networking Resource

NEUTRAL FORUMS

Address society's mobility needs

RESOURCES

Engineering resources to advance mobility

EDUCATION

STEM programs and professional courses, building the workforce

COMMUNITY

Global community pulling from each other's collective wisdom

STANDARDS

Consensus-based standards that advance quality, safety and innovation

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Standards Development

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Standards Development Process & Timeline

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Average time to publication – 18 months

Need Established
Industry/Authority

Technical Development
Committee Expertise
Ballot 28/14 Days

Governance
Council Oversight
Ballot 28 Days

Publication
Entrance into Marketplace

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Global Industry Drivers & Influencers

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Industry Focus:

- **Environment – Decarbonization**
  - EV / Hybrid Technology
  - Battery Tech / Traceability – “Battery Passport”
  - Alternative Propulsion i.e., Hydrogen
  - infrastructure
- **Safety**
  - ADAS / Automated / Connected Car / V2X
  - Infrastructure
  - Micromobility

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SAE Ground Vehicle Standards

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Advanced Technology Focus Areas

Mobility for Elderly and Persons with Disabilities

Driver-Vehicle Interface

Driving Automation Systems

EV/Hybrid/FC Vehicle & Battery

Active & Passive Safety

Functional Safety

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GV Standards – Focus Areas (cont'd)

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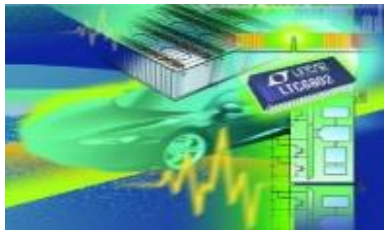
Wireless Charging



Electronics System Reliability

Vehicle Electronics Cyber Security

Connected Vehicles

Micro & Shared Mobility

Intelligent Transport Systems

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Aerospace & GV Technology - Centricity

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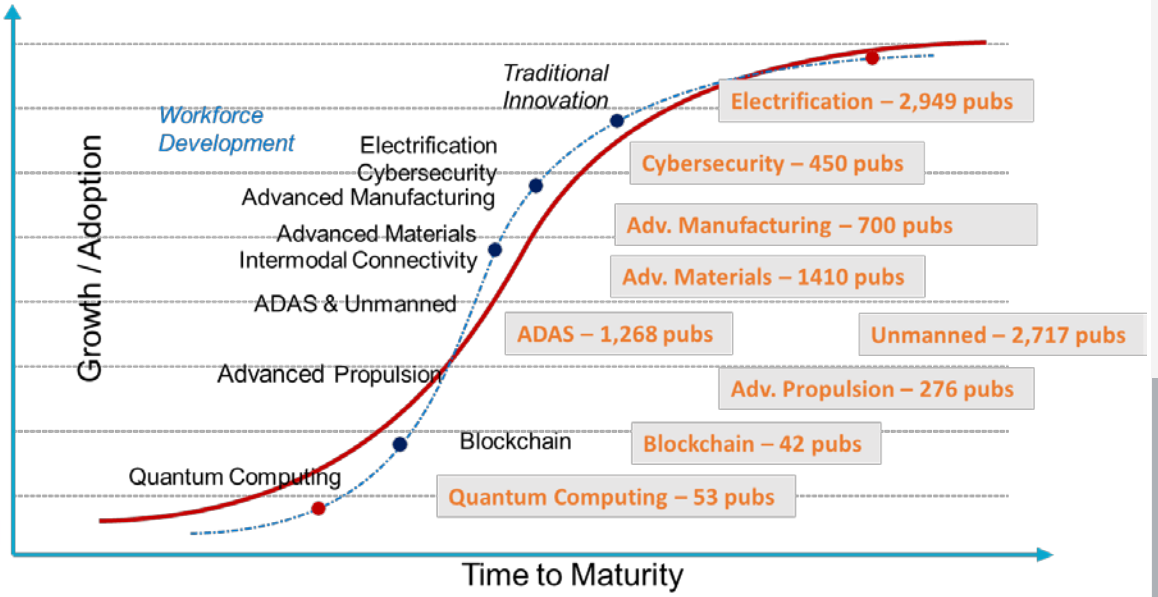
SAE's Elite 10 Topics – technology-centric, not sector-centric

- Advanced manufacturing
- Advanced materials
- Advanced propulsion
- Automated & unmanned
- Blockchain
- Cybersecurity
- Connectivity
- Quantum computing
- Electrification
- Workforce development



Note: Total publication count is over 232,500. Includes standards, papers, journals, EDGE, eBooks and magazine content.
Numbers are approximations based on searches for the specific term above.

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SAE INTERNATIONAL

SAE Aerospace Standards by the numbers

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11,000+
participants

105

Years of SAE aerospace standards

7,800+
Active documents

59
countries

180
Technical Committees

1,300+
Works in Progress

25
New committees & steering groups since 2017

5
Steering Groups

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SAE Aerospace Standards

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Approximately 1800 SAE International standards are used in the development of a typical aircraft

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Information Products & Digital Innovation

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Digital Products & Innovation

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Exists to provide stakeholders with

- high-quality technical content that enhances its customers' abilities to deliver their products efficiently to market,
- conduct effective research and
- meet emerging challenges directly.

We supply essential information and insight that advances our customers' missions and goals. We deliver the world's most reliable and comprehensive collection of mobility engineering resources.

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Customers, Content & Value

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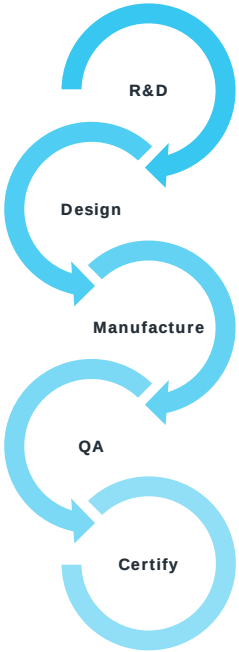
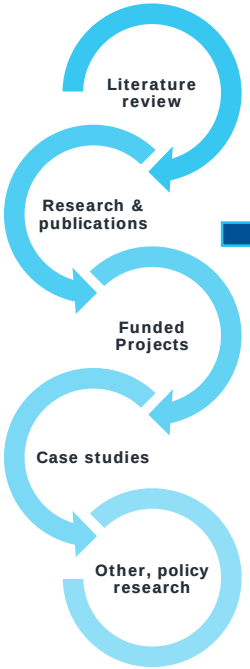
Corporate



Academia



Content

- Standards (47,000+)
- Journals (9,500+)
- Technical papers (150,000+)
- Books (900+)
- EDGE reports (90+)
- Other products (20,000+)

Features

- Intuitive search
- Alerts
- Project Folders
- Redlining
- Citations
- Formats

Value

- Reduced time to research
- Stay current with cutting-edge research
- Copyright compliance
- Standards they can "trust"
- Increased productivity
- Expense Management

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Standards Features & Tools

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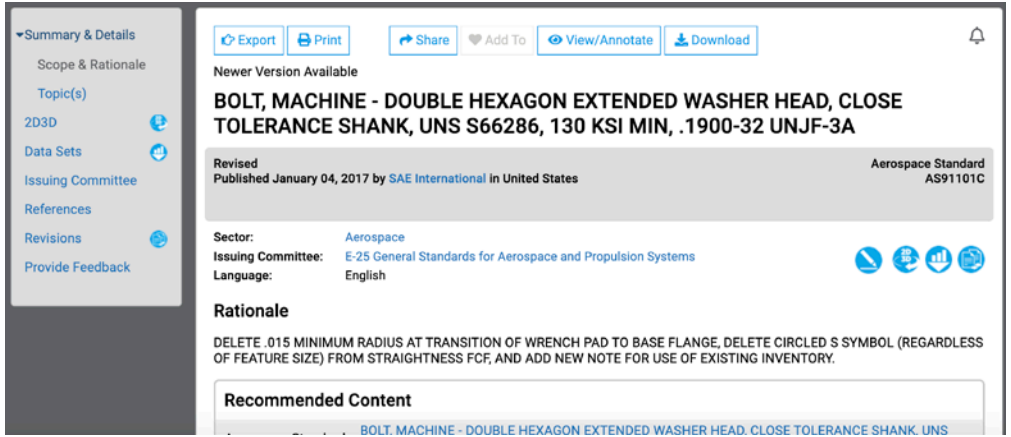

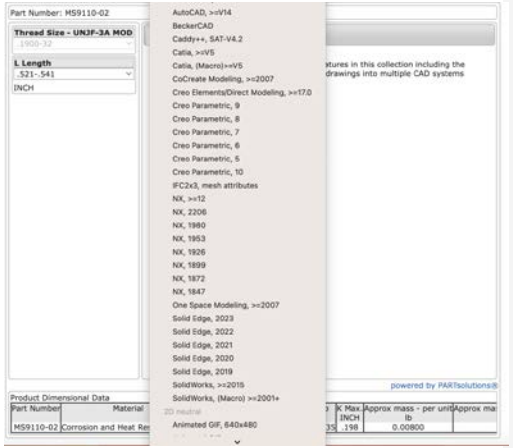

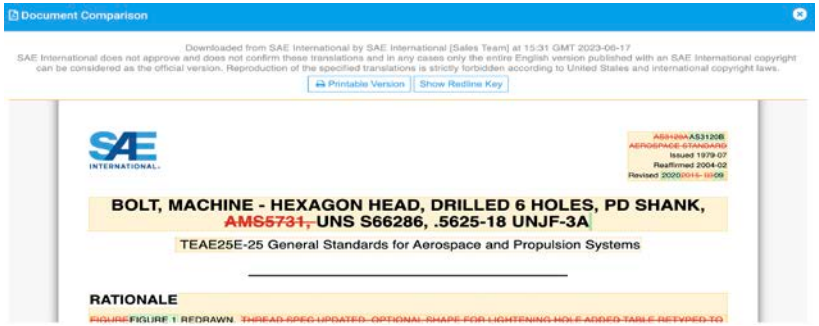

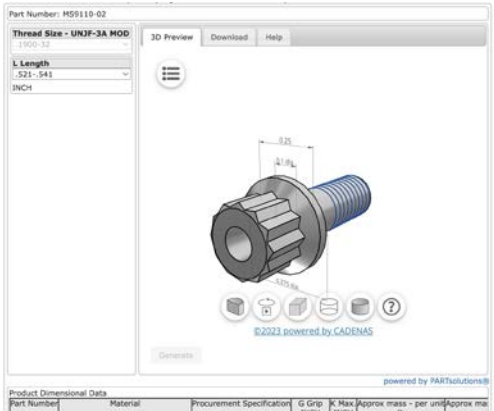

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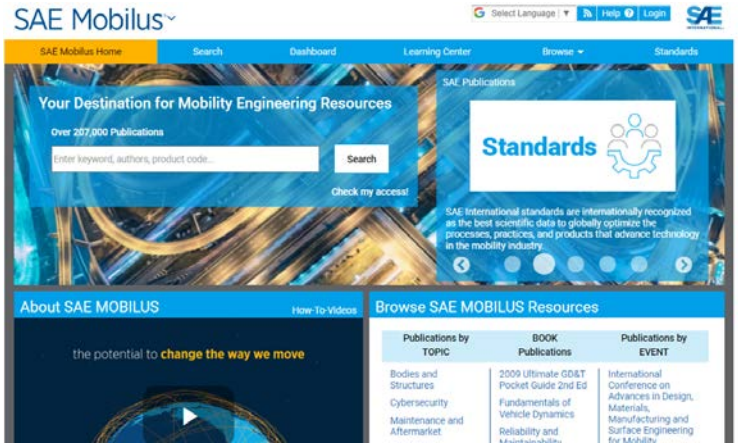
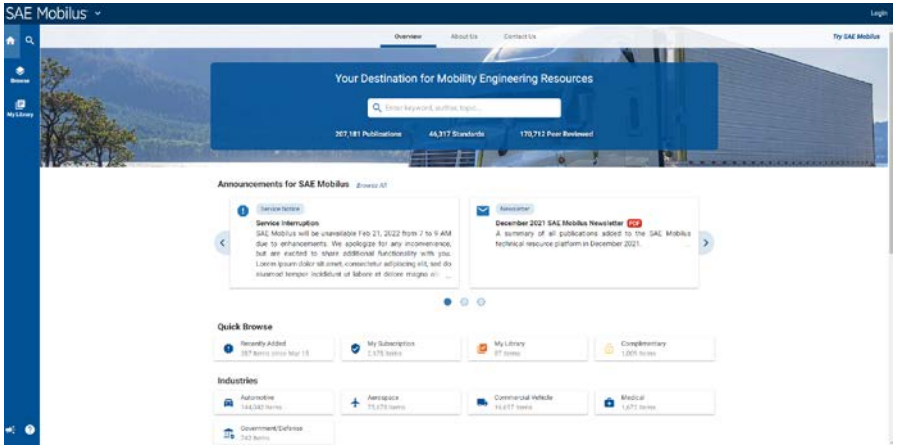
Getting Closer to Mobilus 4.0..

Mobilus 3.x



Mobilus 4.0



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SAE Mobilus 4.0: Objectives

- Ensure reliable Access to Content
- Compliance with Reporting and Accessibility Standards
- Improve in-app Internal Content Discoverability
- Improve SEO External Content Discoverability
- Spread Awareness of SAE & Partner Content
- Improve User Engagement
- Enhance Site Performance & Reliability
- Build it to be Mobile friendly

ACE D MAP

Not only UI – Ecosystem upgrade

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Aerospace

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Automotive

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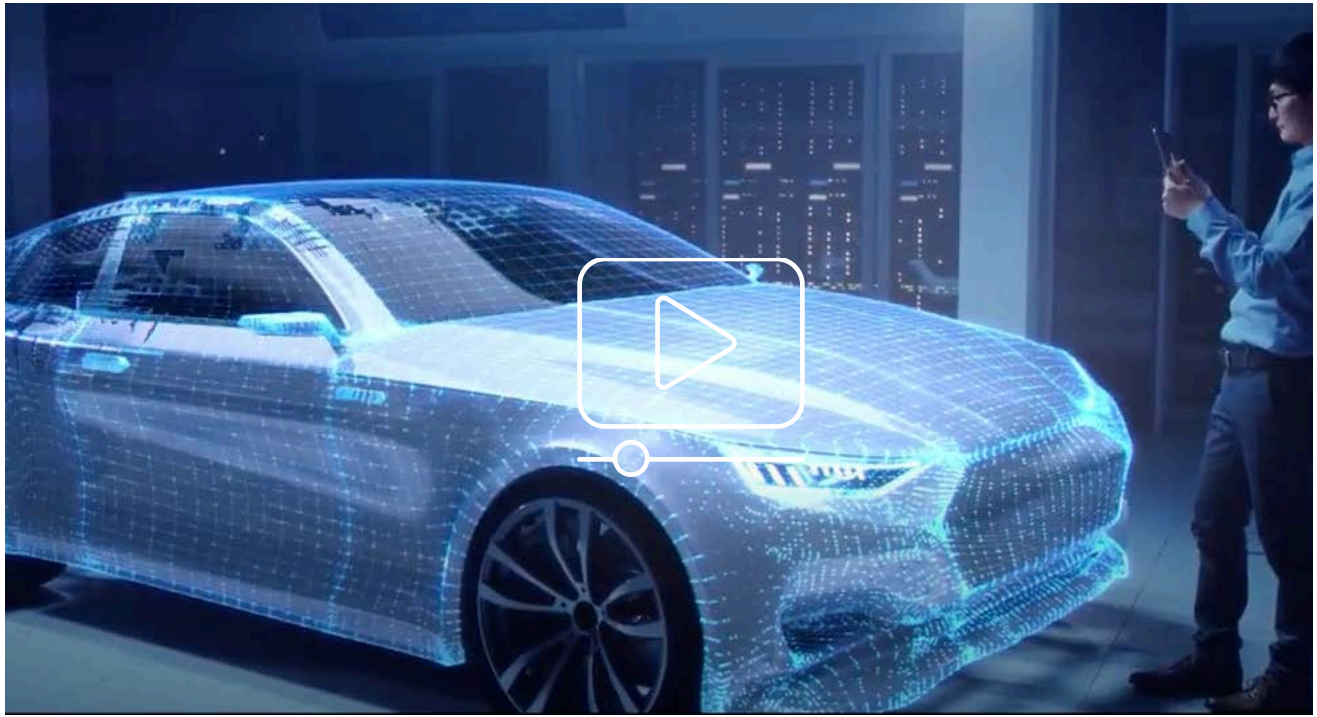

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Commercial Vehicle

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