

F + L WEEK

VIRTUAL MARCH 9-12, 2021

Global Lubricants Test Standards Team;
Streamlining Communication Around the World

Presented by Greg Miiller
The Savant Group

Sponsored by the ASTM



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Agenda

- ▶ Background – Current Specification Processes
- ▶ Standards Creation for a Global Market
- ▶ Global issues and opportunities to streamline processes
- ▶ Purpose of the Global Lubricants Test Standards Team (GLTST)
- ▶ Introduction of participating organizations
- ▶ ASTM and collaborative development
- ▶ Conclusion





Some Current Examples of International Lubricant Specifications

North America, South America, Asia and Europe

Current example of groups determining specifications (US, Asia and Europe)
Specification Setting Organizations (SSO's) and Standard Development Organizations (SDO's)

ACEA –
(ATC/ATIEL/etc.
input)

API –
(ACC/ILSAC/EMA/
etc input)

IFC
(new OEM
consortium)

SINOPEC

JASO
(JAMA)

IPB

Independent
OEMs

Test Method Development SDO's
ASTM/CEC/IP etc...

Multiple Groups Facilitating Lubricant Development – North America

Regulations are a key driver

EMA/ILSAC

API

IFC

ACC

OEMs

ASTM

SAE

STLE

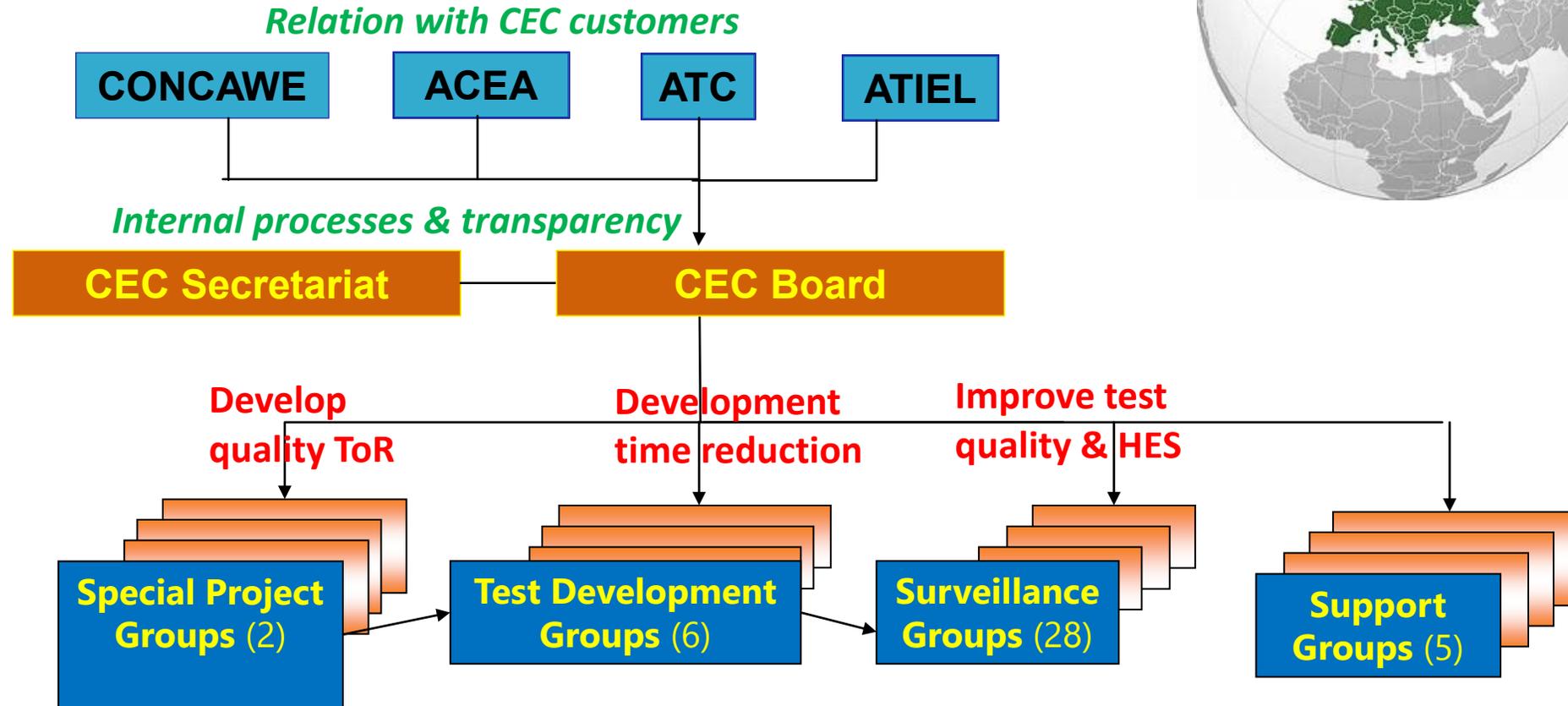
CCDC
Military

PCEOCP



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European SSO and SDO Flow Chart



The Problem



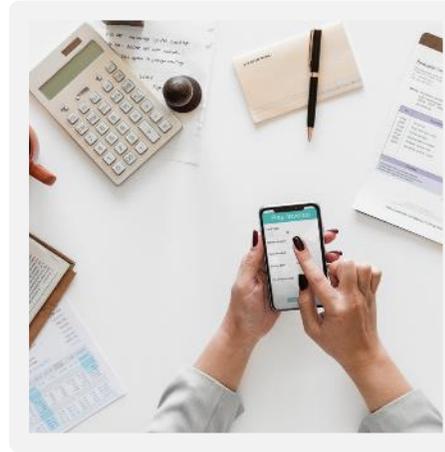
Organization

Need a way of getting everyone on the same page to move forward quickly



Communication Issues

Provide the ability to incite clear and concise documentation and collaboration globally



Financial Efficiency

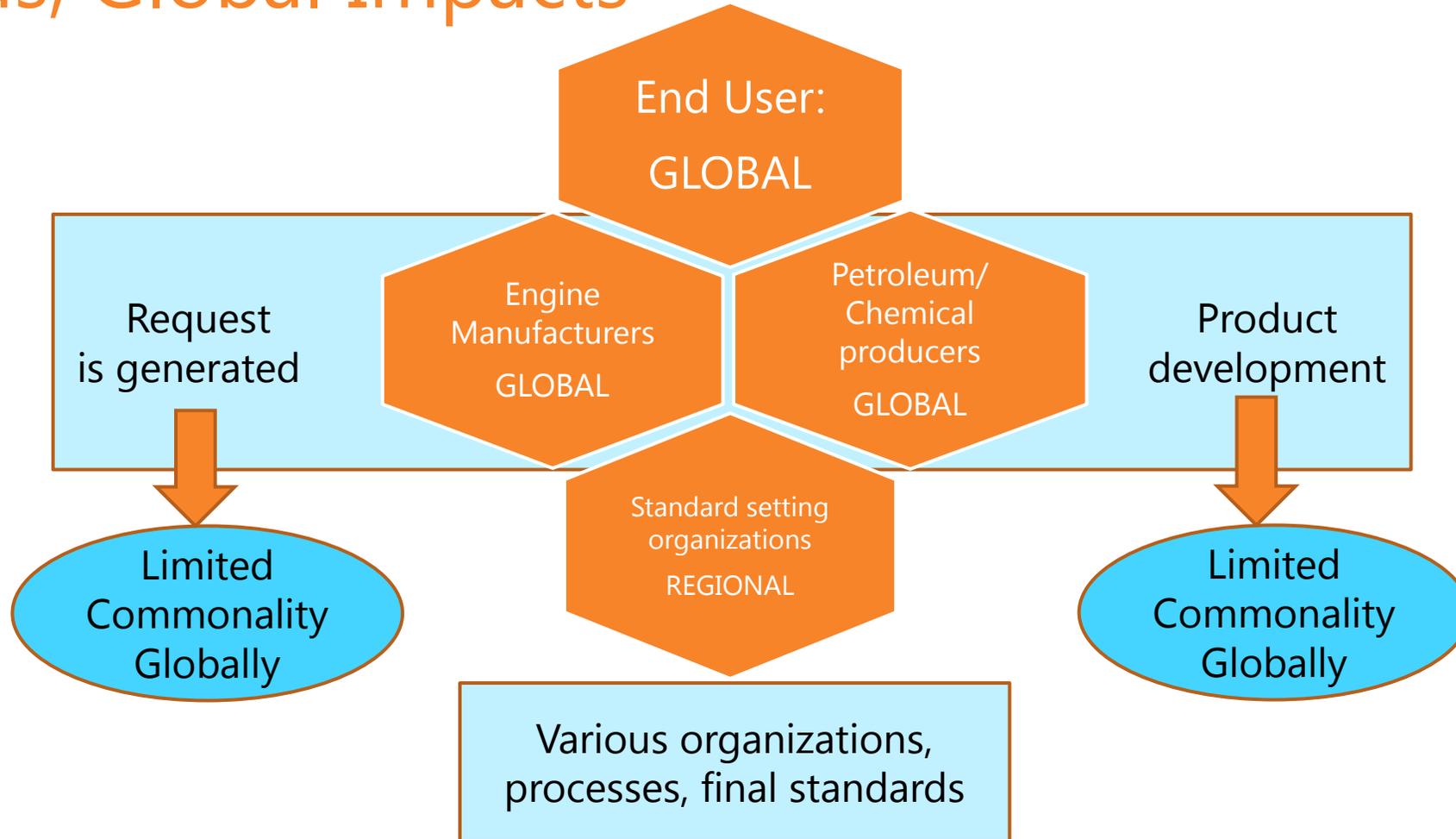
Improve financial efficiency by leveraging shared technology and standardized processes and test development



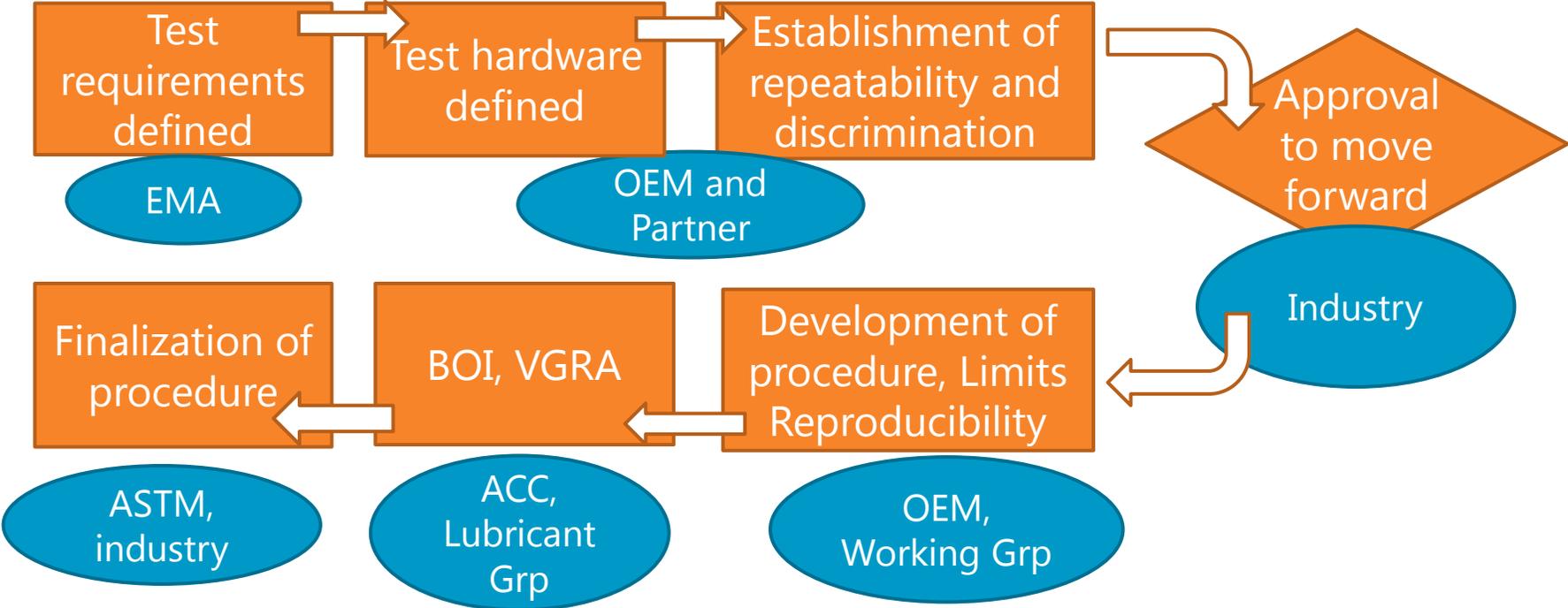
Analytics

Process – a need to share issues and clearing up confusing processes

The Problem: Specifications and Test Standards; Global Impacts



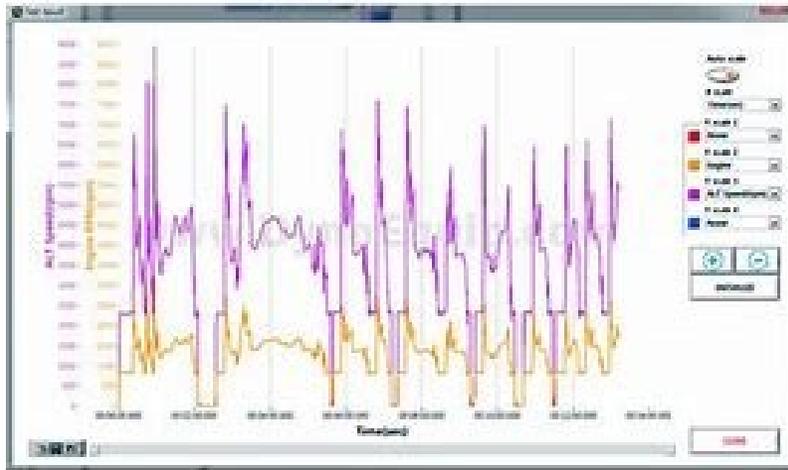
The Problem: Example of the US Heavy Duty Specification Process



Fully US based
Collaboration with EU/ others is not systematic
Funding is not well defined
Roles of various groups is not clear for all steps

Bench and Engine Test Development

Whether heavy duty or hybrid technology, these tests are time consuming and costly to develop.



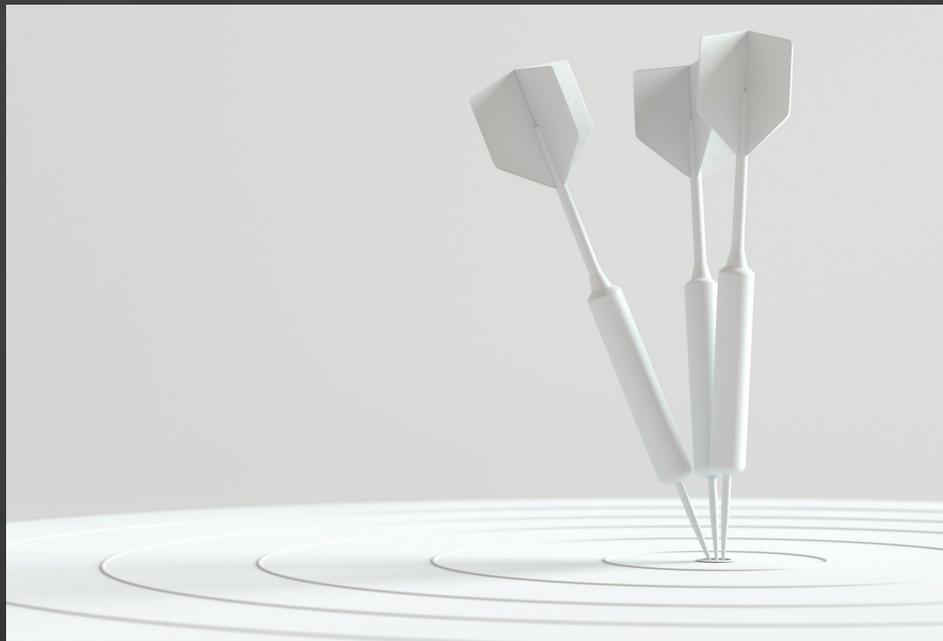


The Solution

THE GLOBAL LUBRICANTS TEST STANDARDS TEAM

Improve International Communication and Collaboration





Mission of the Team

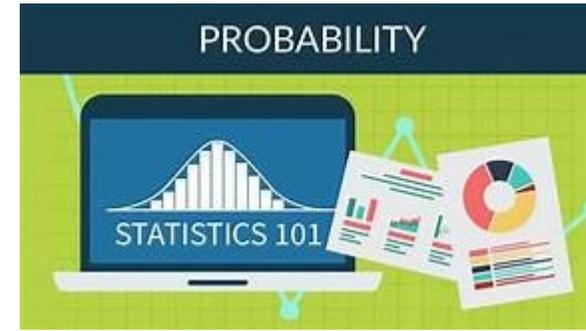
- To provide an international platform for the lubricants industry to facilitate the sharing of time, materials, and intellect.
- To provide a communication forum to assist with industry issues, cross border specification differences and streamlined test methods.
- To encourage industry collaboration by facilitating meetings and providing an electronic platform for sharing information, documents, financials and data.
- This team shall work together to provide annual meetings, face-to-face and electronic, for delegates at a global level.



Action Items for GLTST

- ▶ Help streamline test procedures that are similar in nature across borders. Will work with individual SDO's to address.
- ▶ Assist in the reparation of test methods/standards that have differences in either operation or precision that may cause import/export issues.
- ▶ Address differences in test method/standard operation where it may cause extra time because of duplication that may be unnecessary (ie. CEC L-014 and ASTM D7109 have different sample times and used for heavy duty specifications).
- ▶ Provide a forum where industry experts from SDO's and SSO's can express problem areas in the industry that need to be addressed. These can then be communicated to the proper groups for resolution.

Action Items for GLTST (cont.)



- ▶ Focus the statisticians between different SDO's to develop similar processes for evaluating and subsequently publishing information.
- ▶ Facilitate discussions related to differences in specifications between SSO's as noted and requested by industry. This team is not setting specifications, but rather discussing and passing along information between groups for further resolution and awareness.
- ▶ Provide an electronic platform for sharing information, documents, and data. ASTM to provide logistic, document and meeting support (physical and Virtual.



What we are not doing...

- ▶ **The team is not setting industry specifications.** We are only providing a forum for discussion about industry needs and discrepancies between industry specification bodies. The team will then pass along the indicated issues to groups such as ACEA, API, SAE or other.
- ▶ **We are not developing new standards only conceptualizing them.** This group is only recommending new standards or suggesting updates, modifications in order to reduce confusion and duplication. The information will be sent to the appropriate test standard body for the final development work and balloting such as CEC, ASTM, IP or other.



Introduction of Member Organizations / Delegates

ALIA - Asia

SINOPEC - Asia

API – North America

ACC – North America

SAE TC-1 & TC3 – North America

ACEA - Europe

IFC – Global

ASTM and ASTM TMC – North America

CEC - Europe

PCEOCP / HDEOCP – North America

ATIEL - Europe

IPB – South America

ILSAC – North America

AOAP – North America

EI - Europe

CCDC – US Military

EMA – North America

STLE – North America



Defined Needs

- ▶ Annual Meetings
- ▶ Quarterly Updates
- ▶ Membership Definitions
- ▶ Voting/Input
- ▶ Training on ASTM Collaboration Site
- ▶ Standards to review
- ▶ Standards in development
- ▶ Standards to recommend
- ▶ Field issues that need discussion
- ▶ Commitment of support from ASTM



Standard Meeting Topics (organizational structure)

- ▶ Standard Robert's Rule for meeting organization
- ▶ Reports – North America, Europe, Asia, South America, Africa
- ▶ Industry Issues that need attention
- ▶ Test standard congruence
- ▶ Statistical computation discussions
- ▶ Regulatory concerns (cargo ships, rail, deliveries, other)
- ▶ Specification concerns to be shared

Conclusion

- ▶ There are many SSO's and SDO's around the globe that are working independently, causing different processes around the world.
- ▶ Specification development is time consuming and expensive.
- ▶ Critical need for the petrochemical and OEMs (both passenger car and heavy duty) to communicate on a global level to share issues regarding test methods, data, developing engine tests, cargo, and logistics.
- ▶ The Global Lubricants Test Standards Team is the solution to improve communication and collaboration at a global level to help streamline the test methods, specifications, and regulatory principles.
- ▶ If your SSO or SDO is interested in membership, please contact Alyson Fick (ASTM Staff Member) at afick@astm.org or Greg Miiller at gmiiller@savantgroup.com for more information.

Thank you for your kind attention



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