

Conformity Assessment

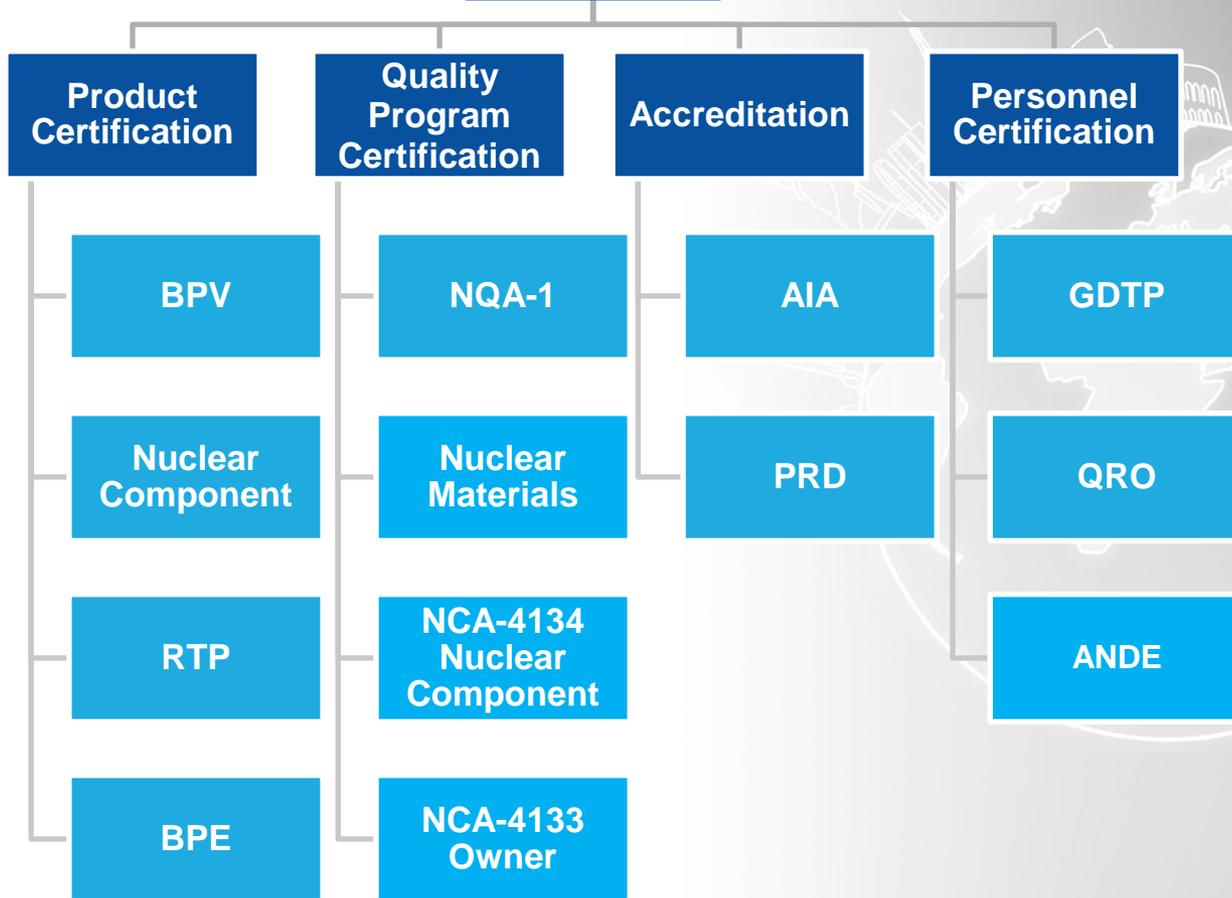
“a closer look”



*National Board
General Meeting*

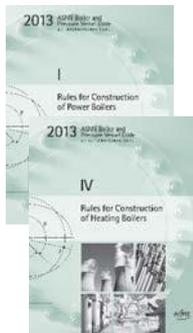
*Jon Labrador
May 7, 2018*

Conformity Assessment Programs

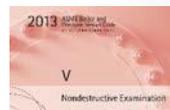
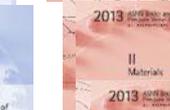


ASME Boiler and Pressure Vessel Code

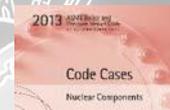
Construction Sections



Service Sections



Nuclear Sections



12 Sections
32 volumes
16,500 pages
Updated every 2 years

Boilers and pressure vessels are used all over the world in many different industries:

7,348 ASME Certified Companies

12,975 ASME Certificates Issued

78 Countries

In order to ensure safety, quality, & operational efficiency of this equipment, regulations & codes have been developed, some of which require independent inspection & certification to achieve compliance.

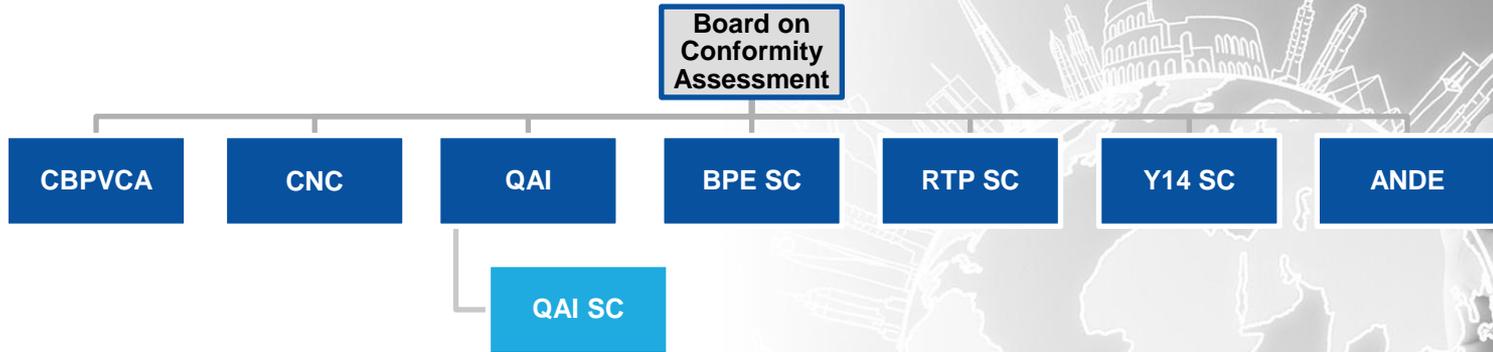
The ASME Advantage

- **The maturity of our Standards** – over 100 yrs. of consensus developed content that advances with technology and ensures high quality products and a commitment to overall public safety
- **Globally recognized and Accepted** – Conformity Assessment requirements that aid manufacturers in the development and implementation of the Standard through a Quality System in the manufacturing of boilers, pressure vessels, and pressure piping, etc.

The ASME Advantage

- **Third Party Oversight (Authorized Inspection Agencies)** – An inspection force, independent of the manufacturer and the end purchaser qualified through the National Board, ensuring compliance to the Standard and supporting the manufacturer’s public commitment to quality and safety.
- **Expert Auditors** – Our qualified auditing force has over 22 years experience on average (per auditor) focusing on the auditing of ASME certification and accreditation programs.

ASME Committee Support System



27

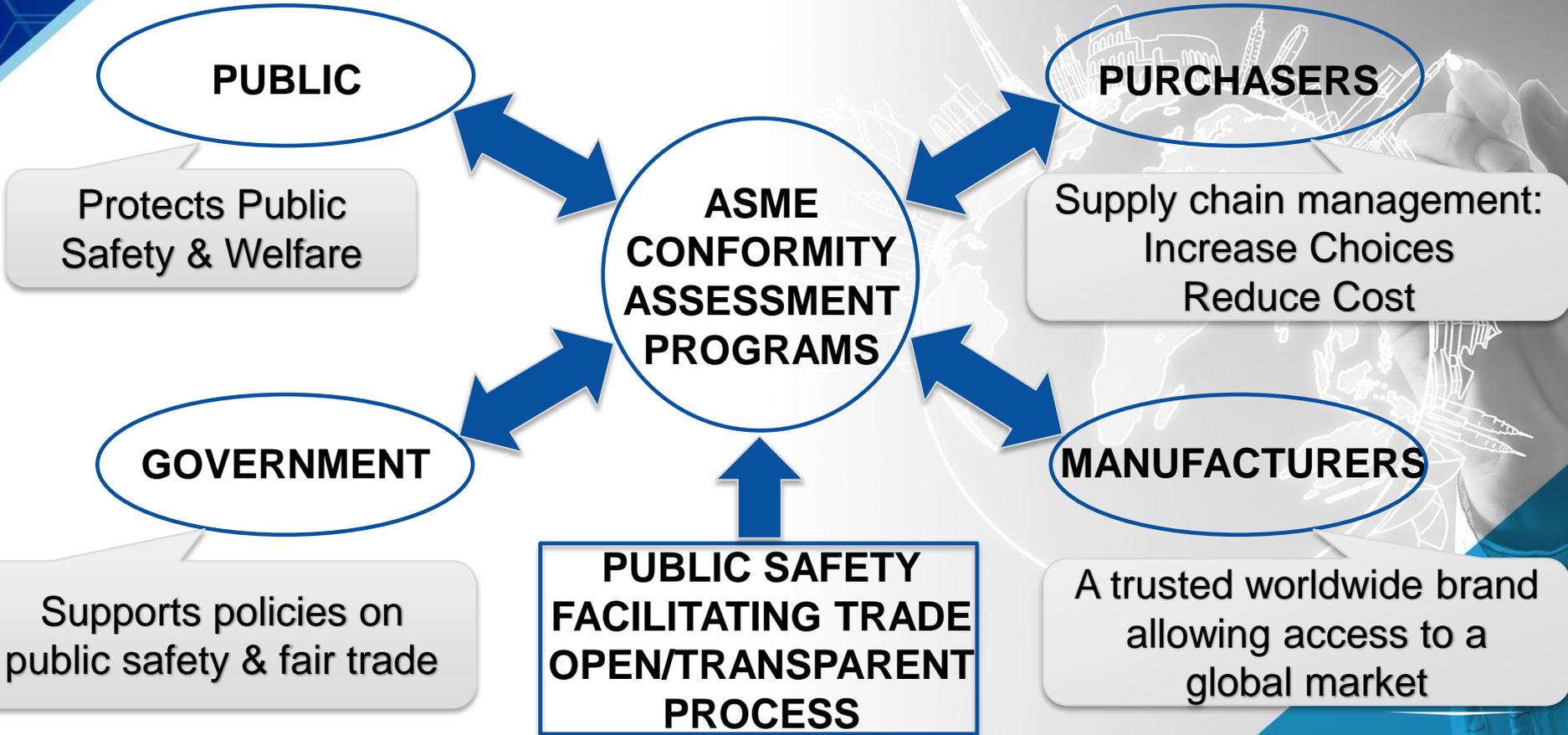
ASME Conformity Assessment Committees

250+

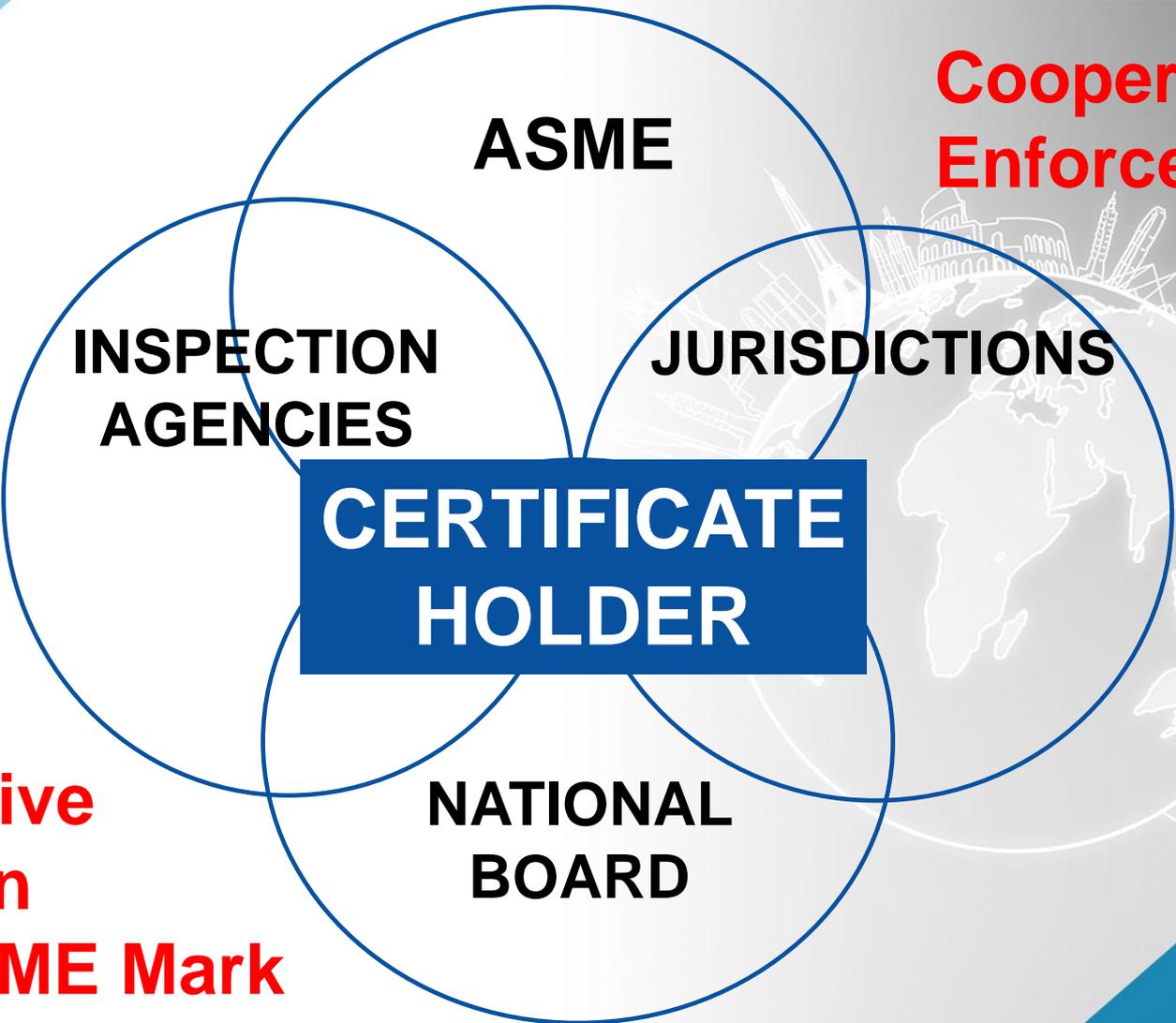
ASME Committee Volunteers across all industries

All participating in the vigorous protection of the ASME Mark!

Benefits ASME Certification



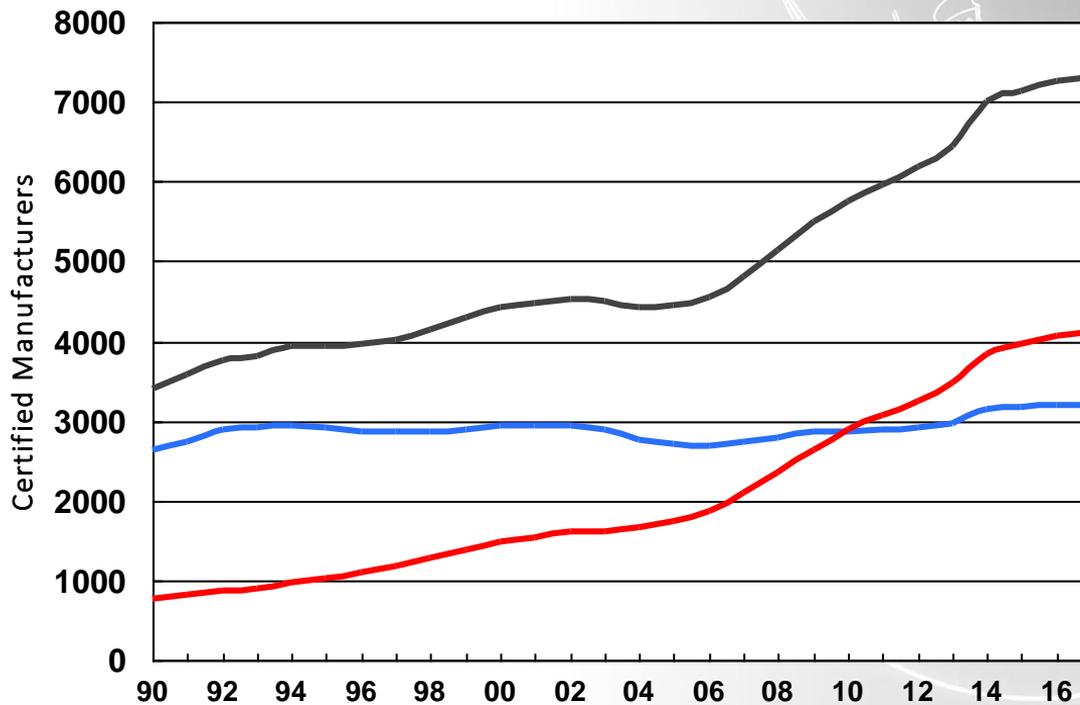
**Cooperative
Enforcement**



**Cooperative
protection
of the ASME Mark**

CA Global Growth

Certified Boiler & Pressure Vessel Manufacturers



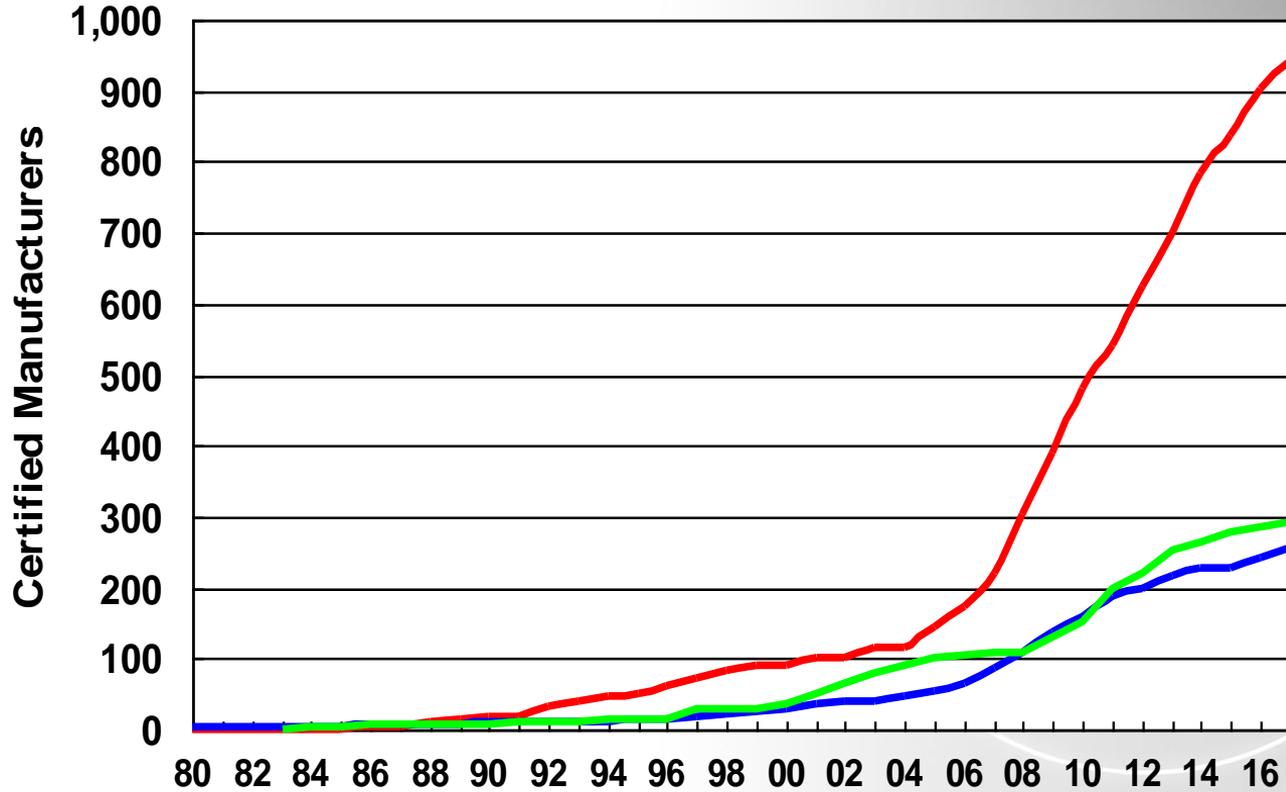
Data as of 2017-06-30

— US

— International

— Total

Certified Manufacturers – China, Italy & India



Data as of 2017-06-30



CA Company Breakdown by Country

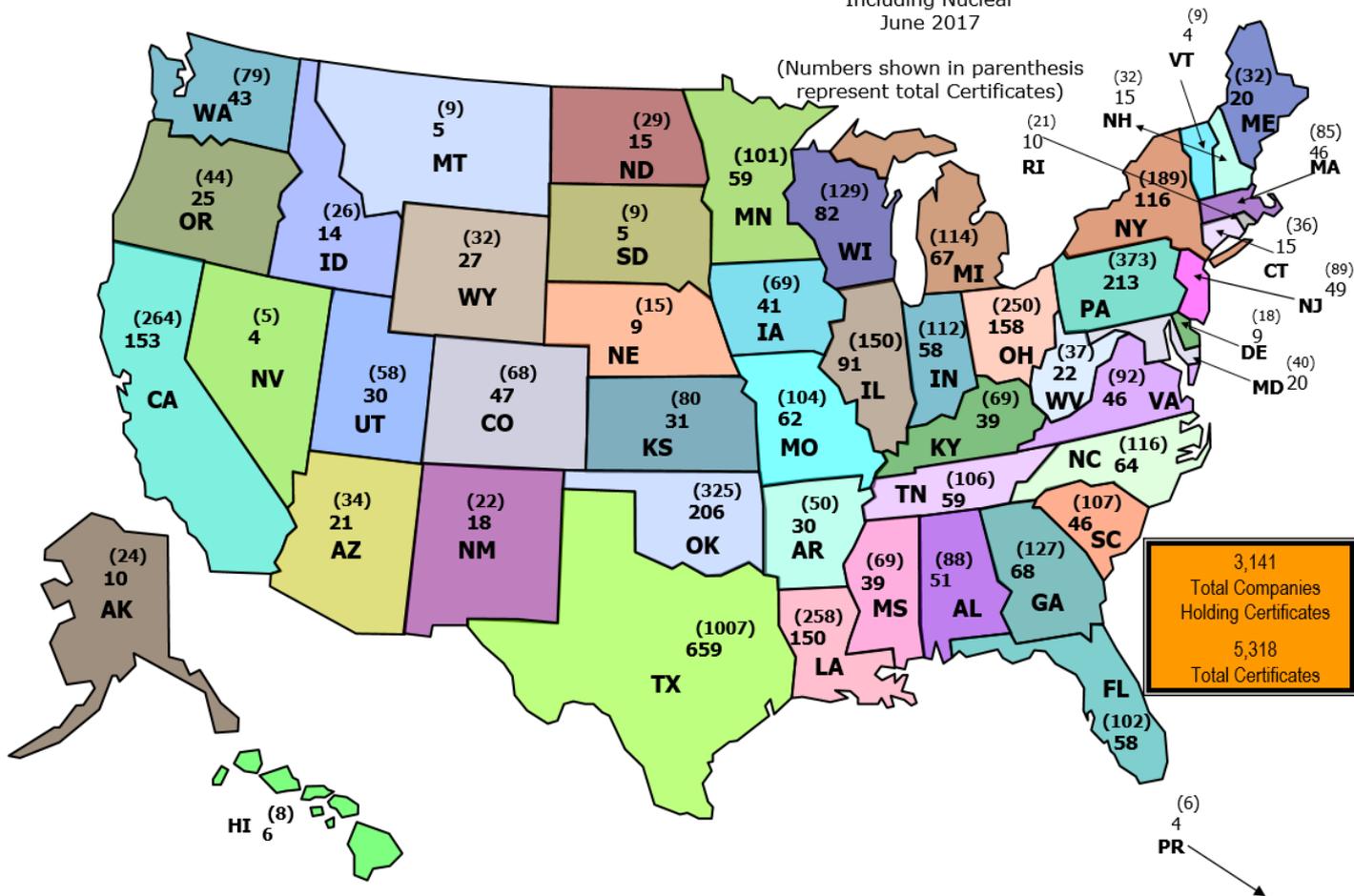
United States	3,093
China	943
Korea	400
Canada	319
Italy	292
India	256
Germany	243
Mexico	183
UAE	118

Data as of 2017-12-31



UNITED STATES

ASME Companies
Holding BPV Certificates
Including Nuclear
June 2017



Conformity Assessment Outreach

Certification 360 Workshops – Existing CH’s, Potential CH’s, Ministries, Agencies, Government Officials



ASME
AMERICAN SOCIETY OF MECHANICAL ENGINEERS

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Certification 360 Workshop

CERTIFICATION 360 WORKSHOPS

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- China Workshop
- Upcoming Workshop Schedule
- Contact Us



Applying ASME Global Standards and Enhancing Public Safety

Certification 360 Workshop

August 9 - 10, 2016
Crowne Plaza Columbus North Worthington
Columbus, Ohio

Program Information

Learn more about who should attend and how they will benefit. Download a copy of the draft agenda.

Register Online

Registration to attend the ASME Certification 360 Workshop is complimentary. [Register now.](#)

- Reach potential Certificate Holders
- Retention of existing CH’s
- “Demystify” the auditing process
- Establish proper auditing preparations
- Establish the ASME Value Proposition vs. competing programs vs. no program
- Explain why ASME programs are “best in class” and “the gold standard”

Conformity Assessment Outreach

Certification 360 Workshops – Existing CH's, Potential CH's, Ministries, Agencies, Government Officials



ASME
CERTIFICATION 360 WORKSHOPS

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April 2015 Busan, Korea

May 2015 Shanghai, China

Apr 2016 Mumbai, India

Apr 2016 Shanghai, China

May 2016 Salta, Argentina

Aug 2016 Columbus, OH

Sep 2016 Bergamo, Italy

Jan 2017 Mumbai, India

Mar 2017 Ravenna, Italy

Apr 2017 Nanjing, China

May 2017 Mendoza, Argentina

Sep 2017 Seoul, Korea

Oct 2017 Dubai, UAE

Oct 2017 Milan, IT

Dec 2017 Bariloche, Argentina

Jan 2018 Dubai, UAE

Mar 2018 Rome, Italy

Apr 2018 Madrid, Spain

*May 2018 Kazakhstan

Conformity Assessment Outreach

Certification 360 Workshops – Existing CH's, Potential CH's,
Ministries, Agencies, Government Officials



Conformity Assessment Operations

CERTIFICATION LIFECYCLE



351 CHECKPOINTS
PER APPLICATION

CA CONNECT

CA Operations: Scheduling

24 Factors

Application Type
Authority Conducting Review
Scope / Certificates
Hotel
Airport
Distance from Airport
Distance from Hotel
Investigation/Follow-up/Re-review?
Company Availability
AIA Availability
National Board Coordination
Jurisdiction Availability

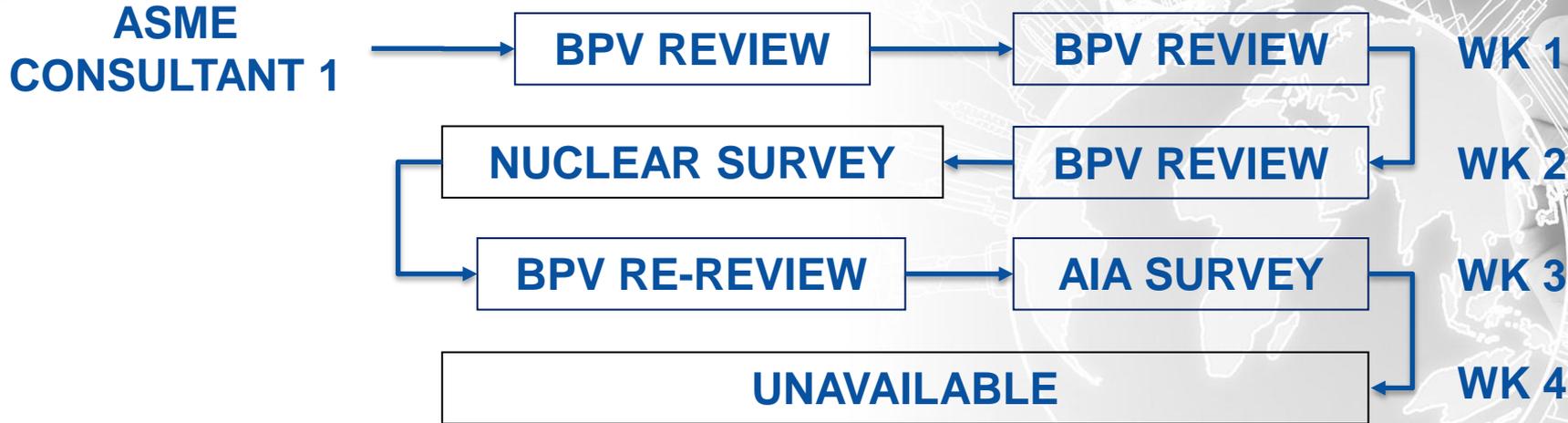
Team Leader Availability
Team Leader Skillset / Qualifications
Team Member Skillset
Plant Locations
Additional Locations
Company Grouping
Previous Team / Team Leader
Team Size
Car Rental / Size
Required Visas
State Department location report
Translation services / availability

BPV REVIEW

SURVEY

CA Operations: Scheduling

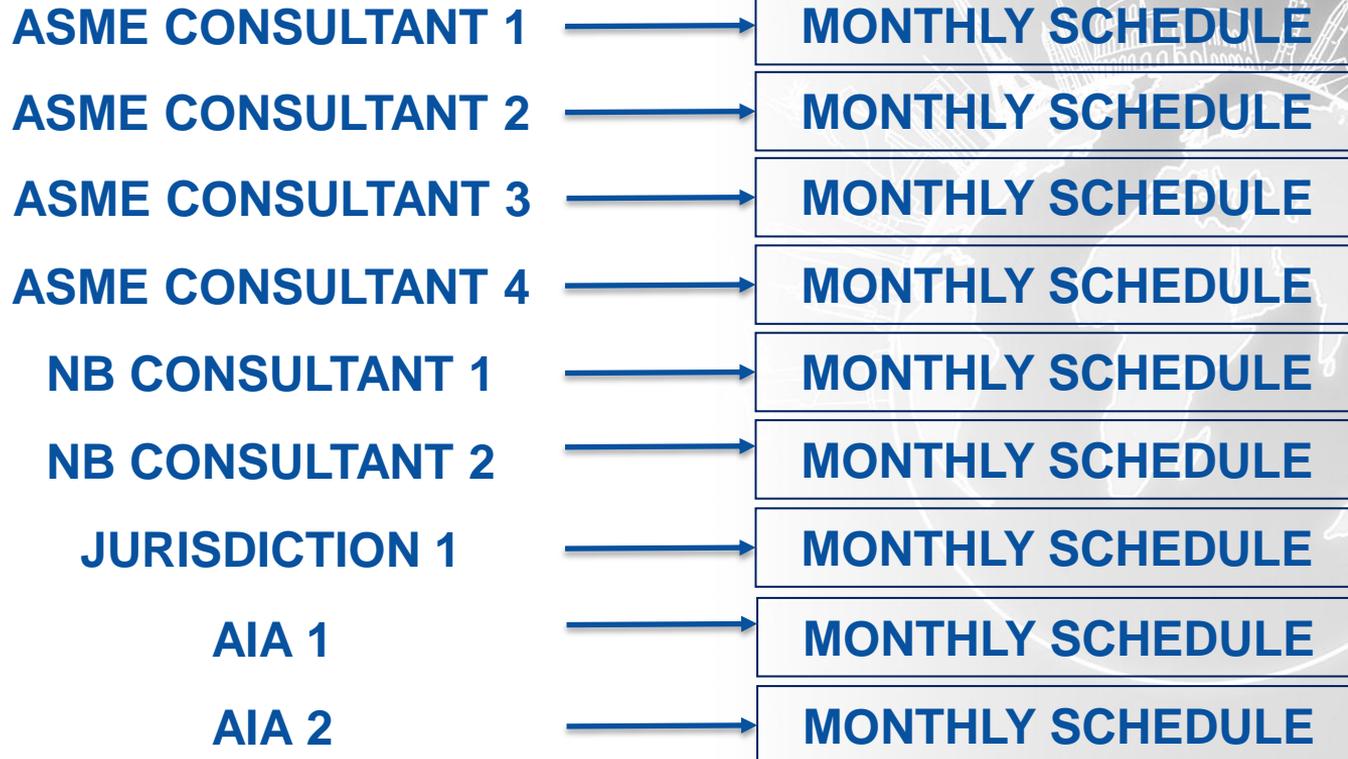
CONSULTANT MONTHLY SCHEDULE



6 REVIEWS/SURVEYS

CA Operations: Scheduling

SCHEDULE GROUPING



24 REVIEWS/SURVEYS

CA Operations: Scheduling



ASME CONSULTANT 1	MONTHLY SCHEDULE
ASME CONSULTANT 2	MONTHLY SCHEDULE
ASME CONSULTANT 3	MONTHLY SCHEDULE
ASME CONSULTANT 4	MONTHLY SCHEDULE
NB CONSULTANT 1	MONTHLY SCHEDULE
NB CONSULTANT 2	MONTHLY SCHEDULE
JURISDICTION 1	MONTHLY SCHEDULE
AIA 1	MONTHLY SCHEDULE
B	MONTHLY SCHEDULE



ASME CONSULTANT 1	MONTHLY SCHEDULE
ASME CONSULTANT 2	MONTHLY SCHEDULE
ASME CONSULTANT 3	MONTHLY SCHEDULE
ASME CONSULTANT 4	MONTHLY SCHEDULE
NB CONSULTANT 1	MONTHLY SCHEDULE
NB CONSULTANT 2	MONTHLY SCHEDULE
JURISDICTION 1	MONTHLY SCHEDULE
AIA 1	MONTHLY SCHEDULE
B	MONTHLY SCHEDULE

MONTHLY SCHEDULE

120 REVIEWS/SURVEYS

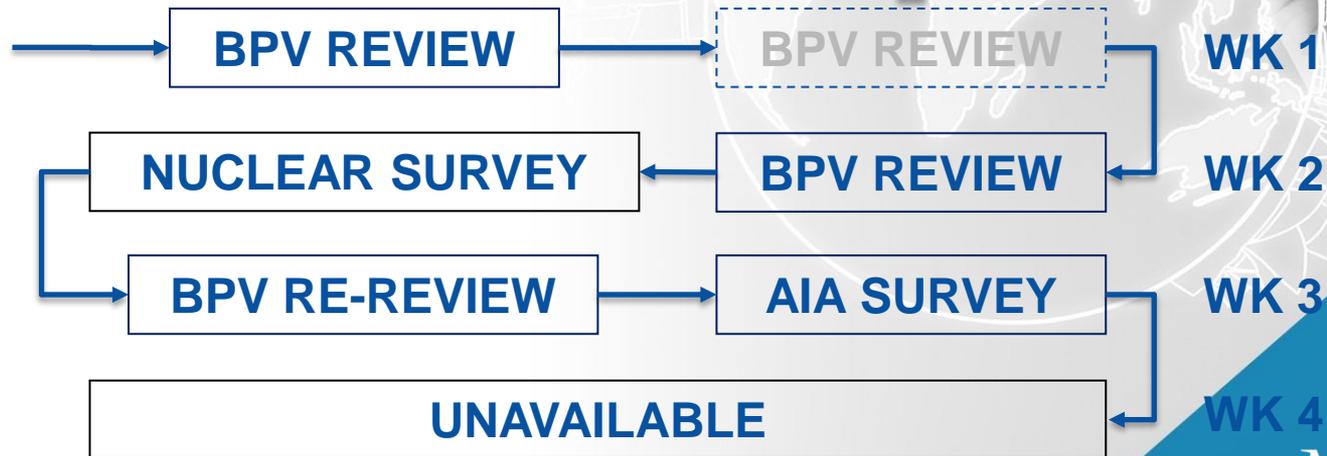
CA Operations: Scheduling

CANCELLATIONS/RESCHEDULING

ASME
COSTS:

Airfare
Travel Hours
Car Rental
Hotel
Travel Expenses
Staff Hours

ASME
CONSULTANT 1



CA Operations: Scheduling

MONTHLY SCHEDULE

120 COMPANIES

44 ASME
CONSULTANTS

**MONTHLY
SCHEDULE**

NATIONAL
BOARD

JURISDICTIONS

34 AIA'S

7 CANCELLATIONS
& RESCHEDULE
REQUESTS

10 COMMITTEE
ACTIONS

2 1/2 DEDICATED SCHEDULING STAFF

CA Operations: Finance

Finance Checkpoints

Deposit Confirmation
Cert & Stamp Fees
Extension Requests
Cancellation Fees
Re-Reviews
Follow-ups
Unannounced Audits
Name Changes
Location Changes
Temporary Locations
Wire Confirmations

Refunds
Pro Forma Invoicing
Final Invoicing
Expense Breakdown
IBAN/SWIFT
National Board Notice
Expense Report Trail
Hours Check
Travel Hours Check
Manual Prep Check
QRR Approval Check

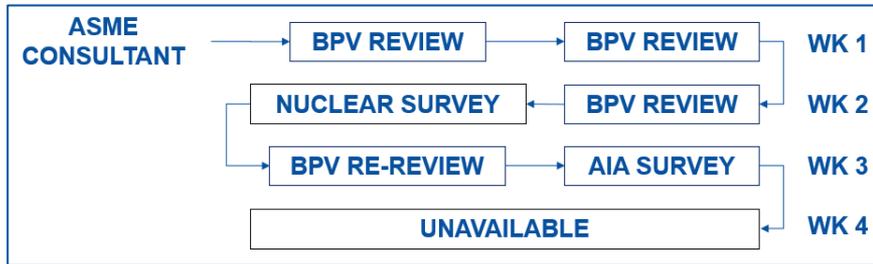
Survey Approval Check
Billing Information
Dynamics GP Transfer
Revenue recognition
Expense recognition
Cert Issuance approval
Balance Due Notice
Vendor fund distribution
Vendor ID Management
Bank reconciliation



CERTIFICATE ISSUANCE

CA Operations: Finance

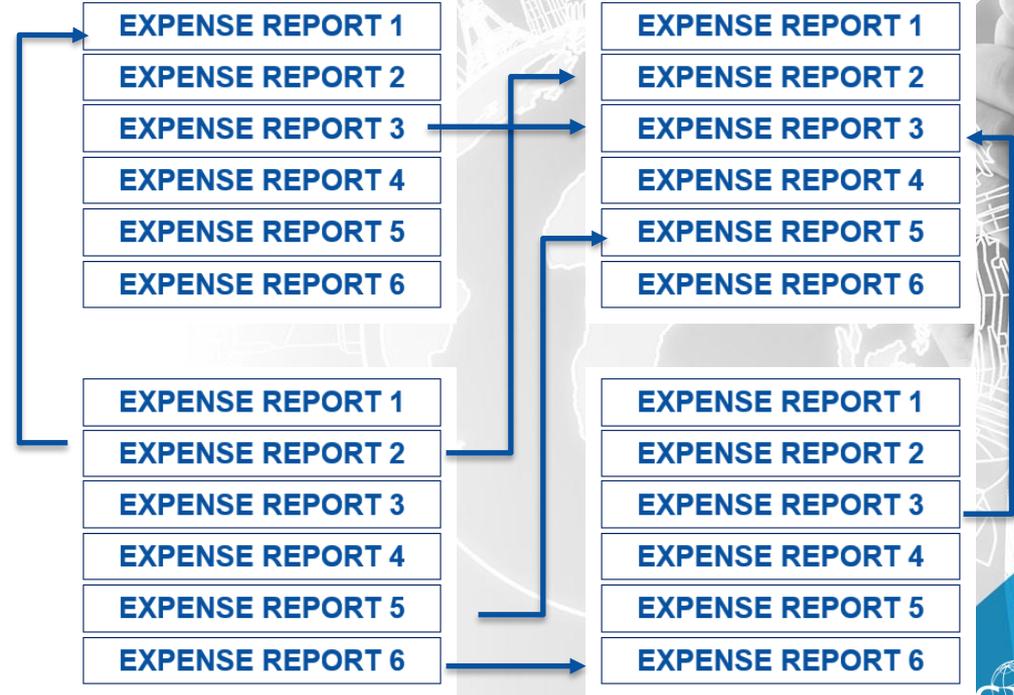
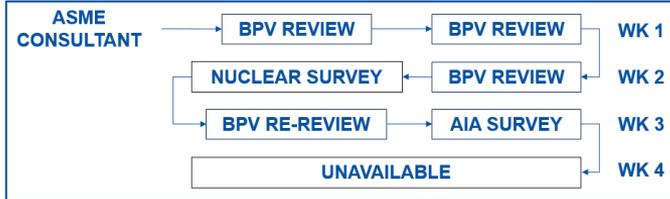
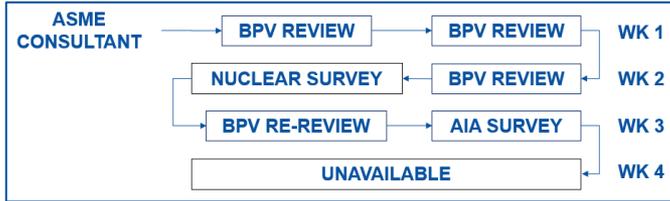
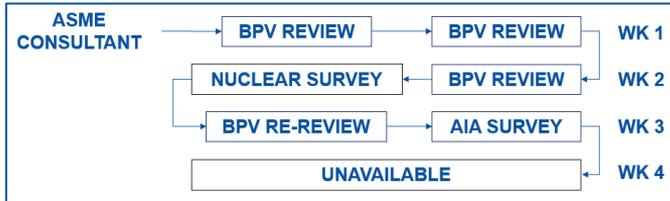
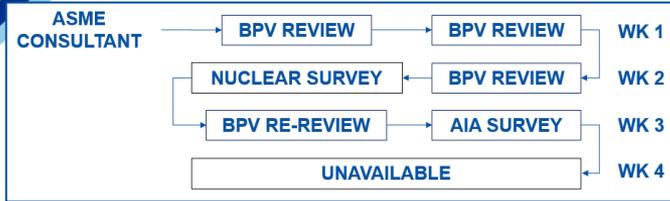
EXPENSE REPORT BUNDLE



6 REVIEWS/SURVEYS

CA Operations: Finance

EXPENSE REPORT BUNDLE



24 REVIEWS/SURVEYS

2018 CONFORMITY ASSESSMENT STAFF



ASME Standards Ecosystem



**Strength in all three components
needed to maintain the ecosystem!**

CHALLENGES AHEAD

- CA Connect & C&S Connect are extremely outdated and require replacement soon.
- “ISO” means international
- Heavy promotion of RCCM ISO 19443 by AREVA which competes against NQA-1 and Supply Chain Certification. Use of free training and orientation of their standard to the international workforce.
- Russian, Korean, Chinese, Canadian Nuclear design specs and power plant construction subsidies.
- New generation of engineers unfamiliar with the ASME Code

CHALLENGES AHEAD

- Government funding provided in other countries for the development of regional certification programs.
- KEPIC heavily promoting their Nuclear Certification Program outside of Korea, offering free training and orientation on their standards to international workforce.
- Technology is advancing quicker than ASME can produce a standalone standard and an associated certification program (i.e. 3D printing of nuclear components).
- Cost of ASME Certifications vs. competing certifications



GLOBAL ACCEPTANCE AND RECOGNITION

1. Continue with successful C360 Workshops
2. Maintain our strong partnerships with the Jurisdictions, NBBI, & AIA's
3. Continue aggressive outreach with Ministries, Agencies, Gov't Bodies
4. Bring the marketing push to the end user through "Demand the Mark" campaigns. Have our CH's help us spread the message!
5. Work with ASME L&D for availability of Standards Training Globally

ASME CERTIFICATION COSTS

1. Reduce expenses by increasing regional auditors
 2. Tightening financial guidelines for expense reimbursement
 3. Develop regional pricing models / reducing overhead
 4. Determine whether growth at the expense of short term revenue is our path forward
- 
- The background of the slide features a faint, stylized illustration. It includes a globe in the center, surrounded by various architectural sketches and blueprints. On the right side, a hand is shown holding a white pen, appearing to be drawing or pointing at the sketches. The overall aesthetic is professional and technical, with a color palette of blues and greys.

MAINTAIN HIGH QUALITY

1. ISO 17065 compliant by FY'21
2. ISO 17024 compliant by FY'21
3. Sound committee processes for CA and Standards
4. Code verification program



20th CENTURY PROCESSING SOFTWARE FOR THE 21ST CENTURY

1. Automate an additional 25% of process checkpoints
 2. True “press of the button” analytics
 3. Real-time performance dashboards and metrics
 4. Robust reporting capabilities
 5. “Smart” processing and maintenance
 6. Dramatic increase in customer performance / service
 7. Full integration with AMS upon Personify replacement
 8. Full integration with finance system upon replacement
 9. ASME.org upgrade
- 
- A hand holding a pen is shown in the background, drawing a globe. The globe is surrounded by various architectural outlines, including domes and spires, suggesting a global or industrial context. The background is a light gray with a blue diagonal stripe on the right side.

Manufacturers want that Global recognition of their commitment to public safety and high quality.

The best way is to certify your process

For End Users the best overall value for the life of your purchased pressure retaining item is to purchase items bearing the ASME Certification Mark.



Questions?

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