Brazilian System on Conformity Assessment

U.S.- Brazil Commercial Dialogue
Digital Video Conference Series

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Inmetro - Main Activities

• Scientific and Industrial Metrology;
• Legal Metrology;
• Conformity Assessment;
• Accreditation of Certification & Inspection Bodies and Testing & Calibration Laboratories;
• Enquiry Point for the Agreement on Technical Barriers to Trade (WTO).
Inmetro - Mission

Improve quality of life and economic competitiveness through metrology and quality.
**Brazilian System on Conformity Assessment**

Conformity Assessment Approach
“systemic, strategic and structuring”

![Diagram](https://via.placeholder.com/150)

- CONMETRO
- ADVISORY COMMITTEES
  - CBAC: Conformity Assessment
  - CBN: Standardization
  - CBR: Technical Regulations
  - CBM: Metrology
  - CCAB: Codex Alimentarius
Conformity Assessment Brazilian System

Usually in Brazil, conformity assessment activities are operated in a systemic approach.

There are some official initiatives, performed by Regulatory Agencies operating outside the system.

However, there are some other voluntary initiatives, performed by private sector.
Conformity Assessment Programs outside SBAC

There are 27 Regulatory Agencies, within and outside SBAC. Examples:

<table>
<thead>
<tr>
<th>Public Area</th>
<th>Private Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ministry of Health</strong></td>
<td>Coffee certification</td>
</tr>
<tr>
<td>Labs accred. by regulatory agency</td>
<td>Peanuts certification</td>
</tr>
<tr>
<td><strong>Ministry of Agriculture</strong></td>
<td>OSHA certification (Occupational Safety &amp; Health Administration)</td>
</tr>
<tr>
<td>Bovine traceability</td>
<td>FSC (Forest Stewardship Council)</td>
</tr>
<tr>
<td>Labs accred. by regulatory agency</td>
<td></td>
</tr>
</tbody>
</table>
Brazilian System on Conformity Assessment

Conformity Assessment Approach

- Strategic Projects (Structural)
- Quadrennial Action Plan
- Other strategic issues
Brazilian System on Conformity Assessment
Conformity Assessment Approach - cont.

- Strategic Projects (Structural)
  - Systemization on divulging the activity on Conformity Assessment (CA);
  - Use of CA marks in the scope of SBAC;
  - Invigoration of SMEs participation in the scope of SBAC;
  - Qualification and certification of professionals operating in CAB;
  - CA information dissemination in schools and universities.
Brazilian System on Conformity Assessment

Conformity Assessment Approach - cont.

- Quadrennial Action Plan

Criteria for Identification and Prioritization of Demands
- Health, Safety and Environment
- Fair Trading Promotion
- Strengthening Consumption Relationship
- Market access improvement

Conformity Assessment Programs in Progress
Currently: 55 programs

Other strategic issues

- Electromagnetic interference
- Life cycle assessment
- Notified Body
- Essential requirements
- Integrated certification of management systems
Conformity Assessment Program

- **Typical Content**
  Standard Basis (what to assess)
  Regulation on Conformity Assessment (How to assess)

- **Development Phases**
  Study of Technical Viability
  Elaboration
  Attended Operation
  Evaluation and Improvement
Conformity Assessment Program – cont.

• Conformity Assessment Mechanisms
  Certification
  Suppliers Declaration
  Inspection
  Testing

• Market Surveillance
  Inspection
  Conformity Verification
  External Agents
Conformity Assessment - Numbers

- Conformity Assessment – Mandatory Programs: 76
- Products voluntarily certified: 208
- Programs in progress: 55, totaling 97 products
- Brands in the market with Inmetro´s mark:
  - Mandatory: 14,100
  - Voluntary: 1,104
  - Companies: 4,396
Cgcre/Inmetro Accreditation Activities

- **Certification Bodies**
  - Products - ISO/IEC Guide 65
  - Personnel - ISO/IEC 17024
  - Management System - ISO/IEC Guides 62 and 66 (transition to ISO/IEC 17021)

- **Inspection bodies** - ISO/IEC 17020

- **Testing and calibration labs** - ISO/IEC 17025

- **Laboratories performing studies** - GLP

- **Clinical labs** - Cgcre’s standard
The accreditation scope for management systems certification bodies comprehend the 39 scopes defined by the International Accreditation Forum - IAF, complemented by the NACE Code;

The accreditation scope for product certification bodies are granted based on a standard or technical regulation, for each single product;

The accreditation scopes for testing laboratories are granted based on a standard or a technical regulation, for each single product and test;

The accreditation scopes for GLP laboratories are granted based on OECD Protocols;

The accreditation scopes for calibration laboratories specify measurement standards and instruments;

The accreditation scopes for persons certification and inspection bodies are granted for specific activities and fields, respectively.
Number of Accredited Laboratories

Calibration 178

Testing 234
## Accredited Inspection Bodies

<table>
<thead>
<tr>
<th>Modality</th>
<th>Type</th>
<th>Qnt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection Bodies</td>
<td>Vehicle Safety</td>
<td>214</td>
</tr>
<tr>
<td></td>
<td>Hazardous Products Transport</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Non-Destructive Testing (new)</td>
<td>0</td>
</tr>
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</table>
## Accredited Inspection Bodies

<table>
<thead>
<tr>
<th>Certification Bodies</th>
<th>Type</th>
<th>Qnt.</th>
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</thead>
<tbody>
<tr>
<td>Products</td>
<td>54</td>
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</tr>
<tr>
<td>QMS (ISO 9001)</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>EMS (14001)</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>QMS for Aerospace</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Forest Certification</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PBQP-h</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>HACCP</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Social Accountability</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Personnel</td>
<td>8</td>
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</tbody>
</table>
### Numbers of Accredited Scopes

<table>
<thead>
<tr>
<th>Types of accreditation</th>
<th>Scopes</th>
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</thead>
<tbody>
<tr>
<td>QMS</td>
<td>39</td>
</tr>
<tr>
<td>EMS</td>
<td>39</td>
</tr>
<tr>
<td>Products</td>
<td>270</td>
</tr>
<tr>
<td>Persons</td>
<td>11</td>
</tr>
<tr>
<td>Inspection</td>
<td>32</td>
</tr>
<tr>
<td>QMS for Aerospace</td>
<td>31</td>
</tr>
<tr>
<td>Forest Certification</td>
<td>2</td>
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<td>PBQP-h</td>
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<td>Social Accountability</td>
<td>1</td>
</tr>
</tbody>
</table>
Participation in MLAs

- **ILAC** - Testing and calibration (2000)
- **EA** - Testing and calibration (2001)
- **IAAC** - QMS, testing and calibration (2002)
- **OECD** - Application for GPL in January 2007
Foreign CABs accredited by Cgcre/Inmetro

- RINA (Ita);
- ABS, UL and PJR (USA)
- UNIT and LATU (Uru)
- Inspectorate, IRAM and OIA (Arg)
- FONDONORMA (Ven)
- ECO-LÓGICA (CRI)
- TORNEL (MEX)
### Recognition by Sector

<table>
<thead>
<tr>
<th>Year</th>
<th>Sector</th>
<th>Forun</th>
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</thead>
<tbody>
<tr>
<td>2004</td>
<td>Forest</td>
<td>PEFC</td>
</tr>
<tr>
<td>2002</td>
<td>Aerospace</td>
<td>AAQG</td>
</tr>
<tr>
<td>2002</td>
<td>Fruits and vegetables</td>
<td>Eurepgap</td>
</tr>
</tbody>
</table>
Cross Frontier Activities

In 2006, Cgcre/Inmetro adopted a cross-frontier policy with: Sincert, UKAS, ANAB, OAA, OUA, SFOH (formal or informal arrangements).

Actions:

• use of personnel assessment provided by the local IAF MLA signatory AB;
• joint assessment with the local IAF MLA signatory AB;
• acceptance of assessments results of the local AB;
• joint evaluations for GLP with the SFOH.
Products for which accreditation by MRA partners are accepted

Regulator - MINISTRY OF HEALTH

- Electro-medical equipment

Regulator - INMETRO’S DIRECTORATE OF QUALITY - (DQUAL)

- New tires for automobiles, trucks and buses
- New tires for motorcycle and autocycle
- Electric equipment for potentially explosive atmosphere, in the conditions of gases and inflammable steams
Products for which accreditation by MRA partners are accepted

- Circuit Breaker
- Plugs and sockets for household and similar use
- Potency cable with extruded solid insulation of PVC - rate up to 1KV
- Electronic reactor fed in alternating current, for tubular fluorescent lamp
- Household switches (and similar use) for fixed electric facilities - rate up to 440V
- Toy – Child Safety
- Components for installation of natural gas system for vehicles
- Other products
Acceptance of calibration and testing

Traceability Policy – Acceptance of calibration certificates from labs accredited by MRA partners

Testing – accreditation accepted by

- ANA (water)
- ANATEL (telecommunications)
- ANP (petroleum and gas)
- ANVISA (health)
- DENATRAN (traffic)
- MINISTRY OF TRANSPORTS
- MINISTRY OF HEALTH
Acceptance of calibration and testing

- MINISTRY OF ENVIRONMENT
- INMETRO’S DIRECTORATE OF QUALITY - (DQUAL)

Cgcre/Inmetro promotes the acceptance of test reports by industry and regulators.