Certification bodies - Concept, requirements, activities, human capacity, market analysis and regional references
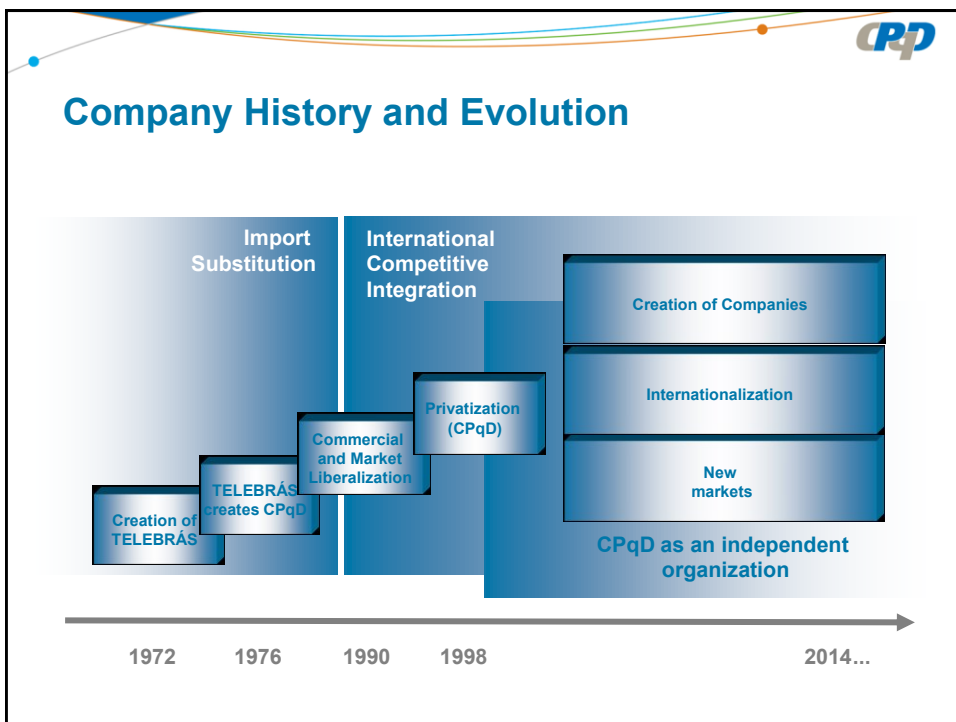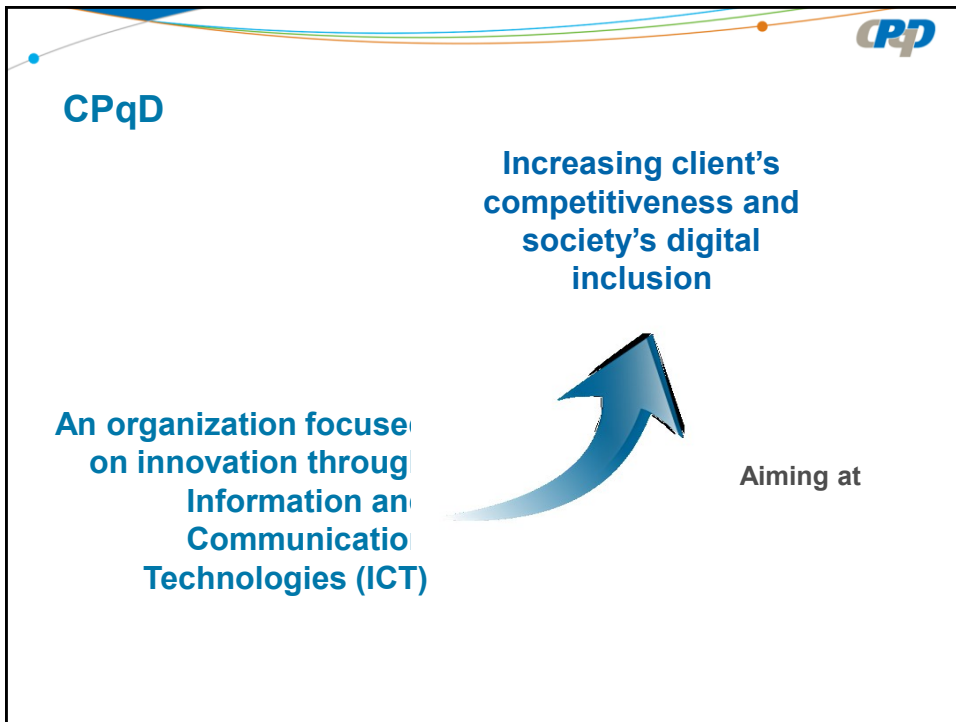
Péricles de Paiva Teles, CPqD - Brazil
Workshop - Conformity and Interoperability assessment study for Caribbean Region
St. Augustine - Trinidad and Tobago, 2 - 4 December 2014

TURNING
INTO REALITY

Agenda

- CPqD
- Brazilian certification process
- OCD recommended structure
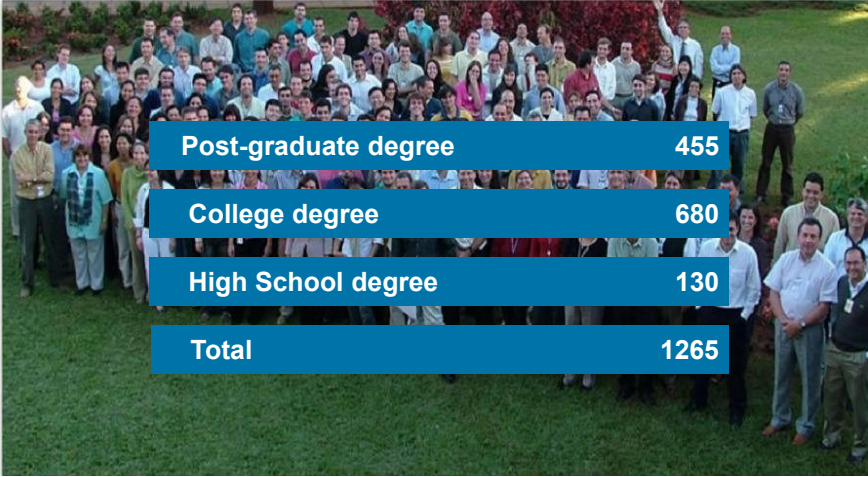- Brazilian Market
- Regional references

CPqD

Increasing client's competitiveness and society's digital inclusion

An organization focused on innovation through Information and Communication Technologies (ICT)

Aiming at

Company History and Evolution

Import Substitution

International Competitive Integration

Creation of Companies

Privatization (CPqD)

Internationalization

Commercial and Market Liberalization

New markets

TELEBRÁS creates CPqD

Creation of TELEBRÁS

CPqD as an independent organization

1972   1976   1990   1998   2014…

Benefits for Society

INNOVATION

DEVELOPMENT · RESEARCH · MARKET

Intellectual Capital

Job Creation

Bargaining Power

Digital Inclusion

Wealth Generation

Our Team

Post-graduate degree	455
College degree	680
High School degree	130
Total	1265

Certifications

CMMI Level 3

ISO 9001:2008 & ISO 14001:2004

**OCD – Designated Certification Body
(by Anatel – the Brazilian Regulatory Agency for Telecom)**

Accredited laboratories (Inmetro)

457 National patent applications

253 International patent applications

1.154 Copyrighted software programs

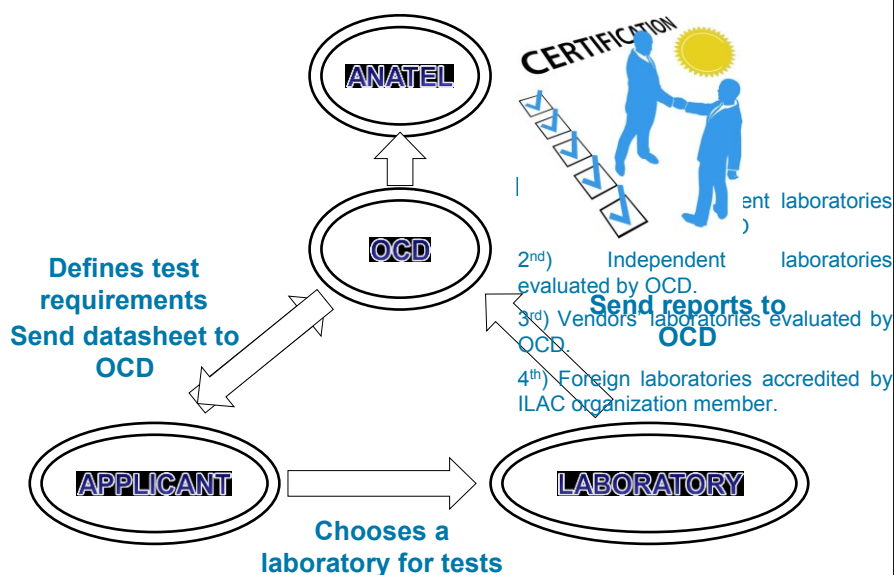**Updated 10/13/2014**

CPqD Premises

Brazil's certification process

- Resolution 242 (November, 2000) - General rules for certification and approval of telecommunication products
- Mandatory for any telecommunication product. Defines all players, including the OCD.
- Resolution 323 (November, 2002) – Standard for certification of telecommunication products
- Defines the process of product certification.

Brazil's certification process

ANATEL

OCD

APPLICANT

LABORATORY

Defines test requirements
Send datasheet to OCD

Chooses a laboratory for tests

Send reports to OCD

CERTIFICATION

ent laboratories)

2nd) Independent laboratories evaluated by OCD.

3rd) Vendors laboratories evaluated by OCD.

4th) Foreign laboratories accredited by ILAC organization member.

Conformity Certification – main infos

Key points

- Minimum technical requirements for product qualification;
- Product classification divided in 3 categories:
- Cat I – for end user application;
- Cat II – for professional application and use of radio spectrum;
- Cat III – for infrastructure application.
- Safety concern for end user;
- Process defined by a Governmental agency, supported by private foundations/companies, working as certification bodies.

Benefits of certification process

- Assure minimum quality and security for user;
- Maintenance of telecommunication structure;
- Knowledge development as a result of international experience + local research.

Structure required for a certification body

- Technical team with high background on current and state-of-art technologies;
- Combination of different profiles and experience levels (long-term experts & New engineers);
- Time-to-market allied with quality;
- Organization structure based on process mapping.

Brazilian Market Analysis

- More than 3.800 process until Oct/14
- 2.100 new products certified this year
- More than 4.700 process in 2013
- 3.100 new products in 2013

- Estimated values related to certification+tests on Brazilian Market:
- Over USD 22 Million dollars per year.

- High competition among companies
- Challenge on offering commodities

Latin America Certification overview

- Argentina
- CNC (Comisión Nacional de Comunicaciones)
  - Certification based on type approval
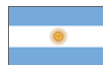
Latin America Certification overview

- Chile
- SUBTEL (Subsecretaria deTelecomunicaciones)
    - Certification based on external reports

Latin America Certification overview

- Colombia
- CRC (Superintendencia de Telecomunicaciones)
    - Satellite equipment, product connected to PSTN and cellular products. Other RF products aren't homologated

Latin America Certification overview

- Ecuador
- SUPERTEL (Superintendencia de Telecomunicaciones)
  - certification using in-country tests

Latin America Certification overview

- Mexico
- COFETEL (Comisión Federal de Telecomunicaciones)
  - NOM NYCE certification

Final remarks

- Certification process can bring benefits for all parts
- Industry: better competition, privileges for those who are legally established in Brazil
- Society: security and quality of products
- Government: management of current technologies and products available. Network maintenance.

OCD-CPqD

BRINGING
the certification
INTO REALITY

Thank You!

Péricles de Paiva Teles
Certification Manager
pteles@cpqd.com.br
+55-19-99769-0066
*www.**cpqd**.com.br*