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ISO/IEC JTC 1

PLENARY

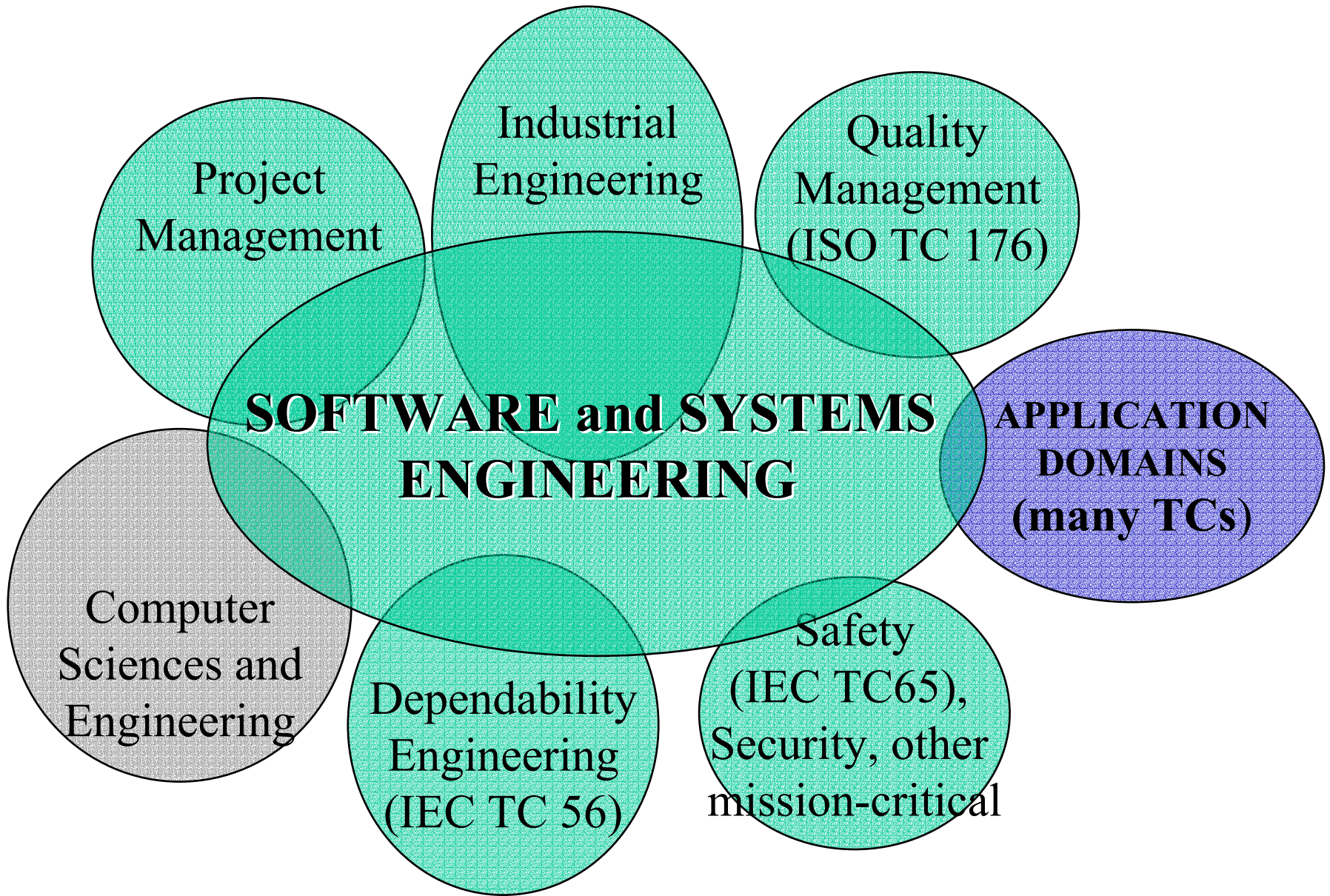
Sophia Antipolis, 2002-10-21

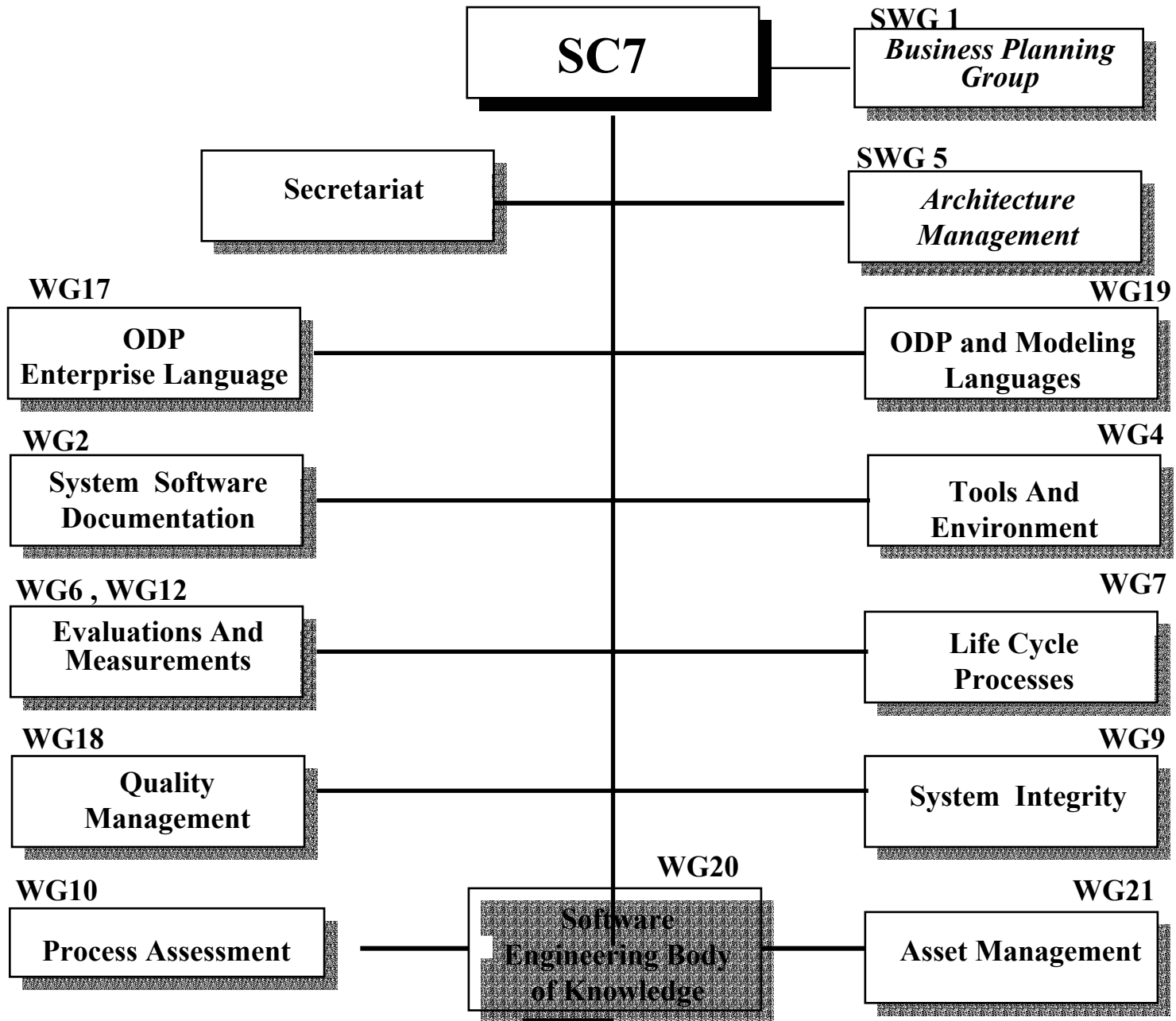
SC7 Chairman Presentation

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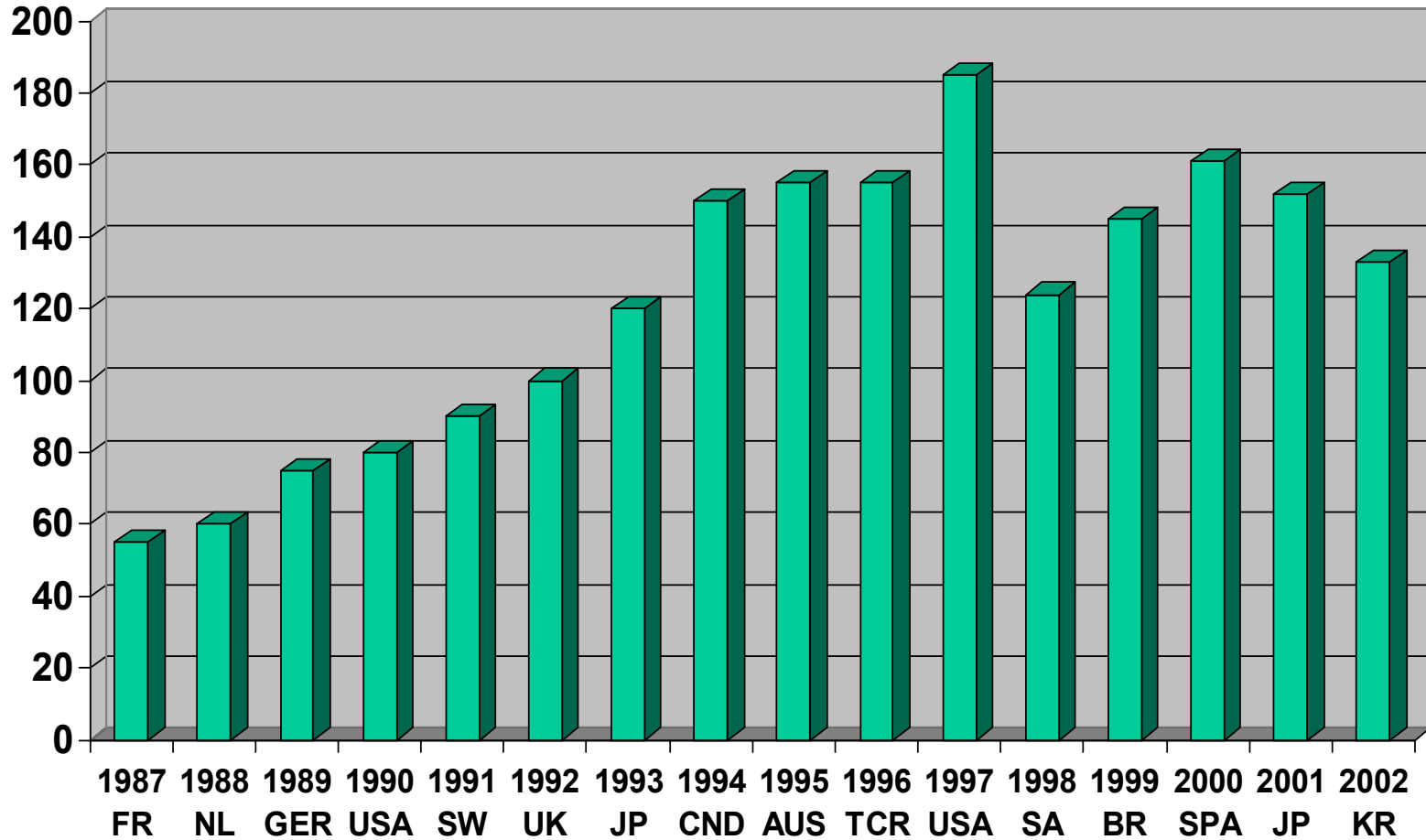
SC7 TERMS OF REFERENCE

Standardization of processes, supporting tools and supporting technologies for the engineering of software products and systems





Plenary Attendance



STANDARDS PUBLISHED 2001

Overall: 58 published standards

2001 additions:

- ISO/IEC 9126-1:2001 Software engineering -- Product quality -- Part 1: Quality model
- ISO/IEC 10746-4:1998/Amd 1:2001 Computational formalization
- ISO/IEC 14598-6:2001 Software engineering -- Product evaluation -- Part 6: Documentation of evaluation modules
- ISO/IEC 14769:2001 Information technology -- Open Distributed Processing -- Type Repository Function
- ISO/IEC 15437:2001 Information technology -- Enhancements to LOTOS (E-LOTOS)

2002 View

From the 2000 View:

- 9126-4: Software Engineering - Product quality - Part 4: Quality In Use Metrics
- 15474: Software Engineering - CDIF Framework - Parts 1 and 2
- 15475 Software Engineering - CDIF Transfer Format - Parts 1, 2 and 3
- 15476: Software Engineering - CDIF Semantic Metamodel - Parts 1,2

From the 2001 View:

- 9126-2: Software Engineering Software Product Quality - Part 2: External Quality
- 12207/FPDAM-1: Software Engineering - Life Cycle Processes
- 14143-2: Definition of Functional Size Measurement - Part 2: Conformance Assessment of Software Sizing Model
- 14143-3: Definition of Functional Size Measurement - Part 3: Verification of a Functional Size Model
- 14143-4: Definition of Functional Size Measurement - Part 4: Functional Size Measurement Reference Model
- 14143-5: Definition of Functional Size Measurement - Part 5: Determination of Functional Domains for use with Functional Size
- 15414: Open Distribution Processing - Enterprise Language
- 15504-2/FPDAM-1: Amendment To ISO/IEC TR15504-2 - Information Technology - Software Process Assessment - Reference Model Extensions For Acquirer Processes.
- 15939: Software Measurement Process

Blue = IS Processing

Red = Published

2002 View

Additional projects near completion:

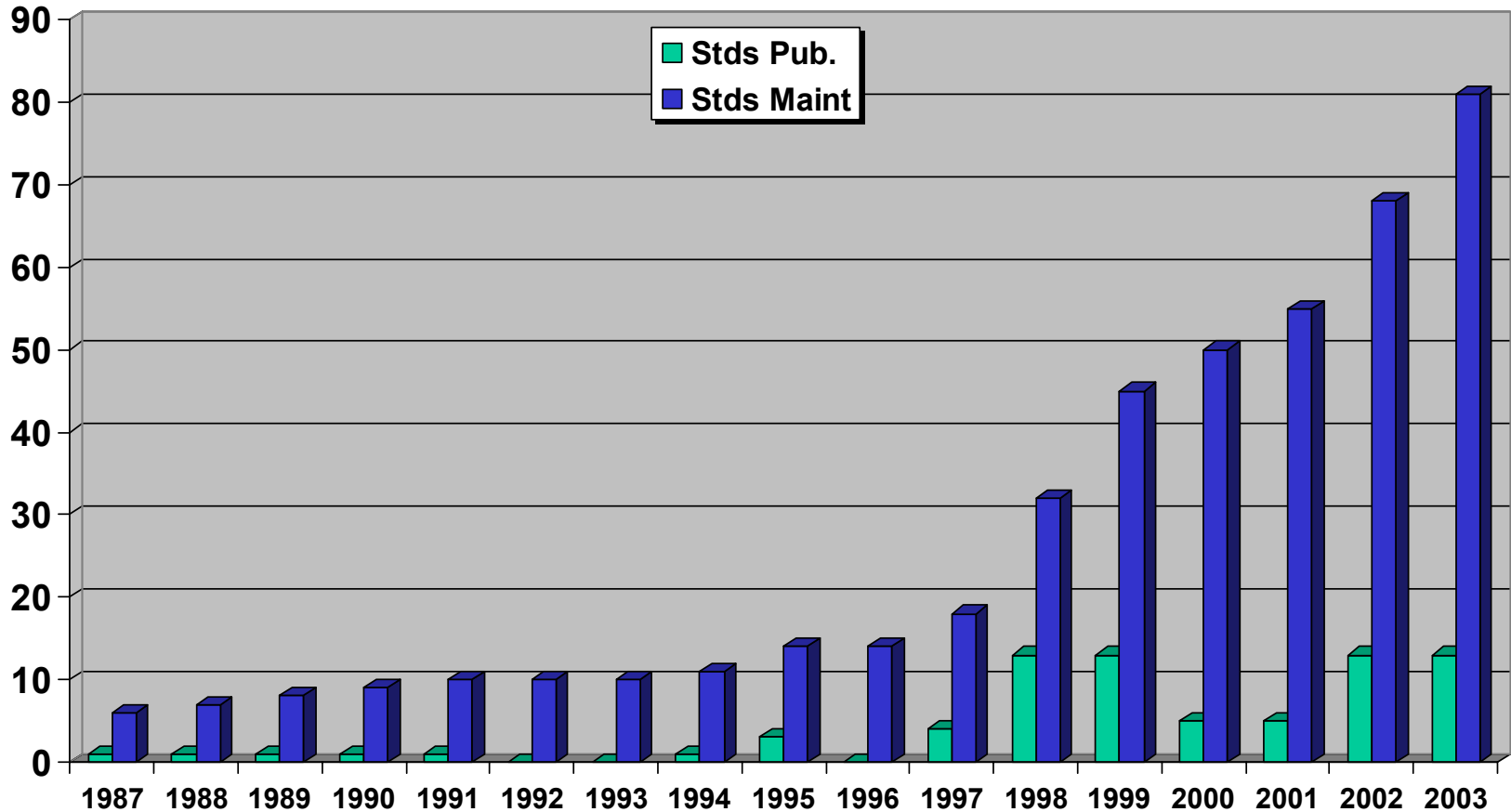
- 15288 – System Life Cycle Processes
- 19501-1 – UML PAS
- 19500-2 – ODP – GIOP/IIOP PAS
- 19762 - IFPUG PAS
- 20926 – Function Point Practices
- 20928 - MKII PAS
- 19761 – COSMIC FFP
- 19759 – SWEBOK
- 9000-3 – Guidelines for the app. Of 9001:2000 to Software

New Projects

- Software Risk Management (Fast Track)
- System and Software Integrity Levels (NWI - accepted)
- Software Engineering - High-level Petri Nets - Concepts, Definitions and Graphical Notation (NWI - accepted)
- Revision of 12207 and 15288 for harmonization (Resolution 629)
- Systems Engineering Standards harmonization
- Consolidated Vocabulary (in cooperation with IEEE-CS) NWI pending

SC7 Production (est.)

(No new NWI assumed - exclude dependability, include PAS)



System Integrator

A *System Integrator* is an organization delivering value by architecting and implementing solutions from components and systems.

- High value added work
 - Architecture
 - Program Management
 - System Implementation
- Reuse of components and sub-systems
- Subcontracting or outsourcing components and sub-systems

System Integrator – what it is meaning for SC7

Focusing on high value added work:

- Developing integrator standards (e.g. 12207, 15288, etc...)
- Developing new standards when existing national or professional positions need to be reconciled
- Sub-contracting development and maintenance of component or specialized standards to other parties, ensuring that they integrate in the SC7 standard architecture

Cooperative Work

- **OMG**
 - ODP and UML standards
- **IEEE Computer Society**
 - More than 50 software and systems engineering standards
 - IEEE-CS has adopted key SC7 standards
 - Some IEEE-CS standards are fast-tracked in SC7
 - Closing on a vision for more systematic cooperative work

Marketing

- Redesigned SC7 Web site from a primarily document exchange site to a marketing ‘window’ – still work in progress
- Publications on SC7 standards
- Conferences contributions
- Cooperative Work with professionals associations (INCOSE and IEEE-CS)

SC7 Web Site

<http://www.jtc1-sc7.org/>

Added and/or overhauled the following sections:

- Introduction and Mandate
- Organization
- Planning
- Projects (pointing to ISO web site)
- Published Standards (pointing to ISO web site)
- Publications

Conferences

- Publications on SC7 work in Software Engineering Conferences
- Software Engineering Standards Conference – South Africa – 2003-10-31 and 11-01
- Joint ESA and 3rd SPICE Conference – 2003-03-17 21 – ISO/IEC 15504 community

Publications

Non exhaustive listing:

- 10 books listed published between 1997 and 2002
- 5 papers published on the Web between 1999 and 2001
- Article from SC7 Chair accepted by US DoD Software Engineering periodical CrossTalk for possible publication IQ03
- ISO Journal article planned for IQ03