eTendering International standards project

ASIA Construction IT Round Table

August 2010, 5th

UN/CEFACT
TBG6 Vice chair
Junichi Yamashita

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- Background and General introduction
- Standardizing Bodies
- History of the development of the standards
- Status of the standardized documents
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Background

- MLIT and MIC began to use the eTendering system in 2001 according to the eJapan strategy.
- TBT (Technical Barriers to Trade) Agreement
- EDI international standards
  - UN/EDIFACT,(ANSI X12(US),CII Japan)
- UN/CEFACT Barcelona meeting March,
  - *e-Tendering ebXML standards project*

Barcelona meeting ends up with the decision to launch the eTendering ebXML standards project as a first «intersectorial project»: the launching date will be in September 2002, in the newly established UN/CEFACT Forum.
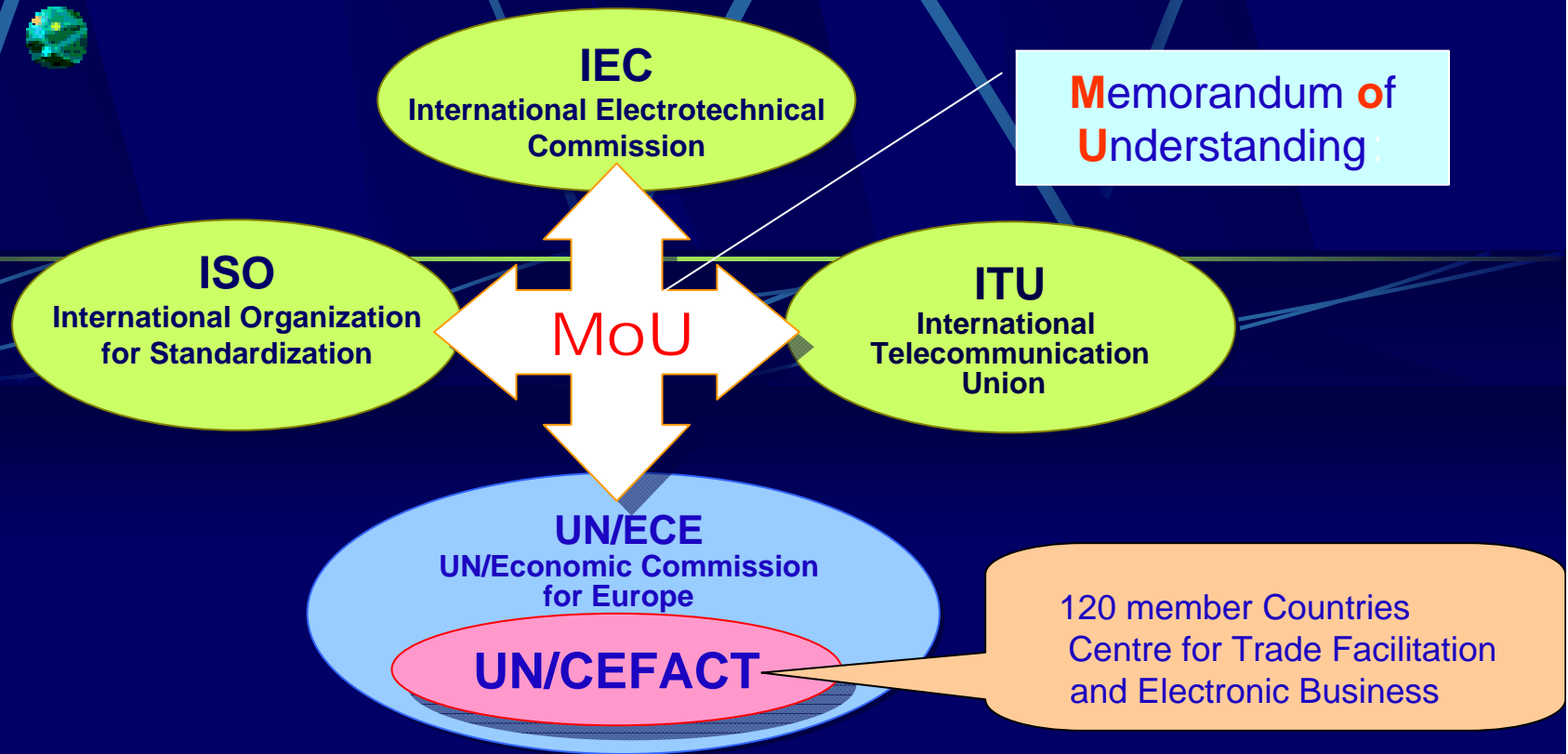
Background

- UN/CEFACT? ISO?
  - UN/CEFACT(Center for Trade Facilitation and Electronic Business) Forum
    - UN/CEFACT is a standard body of UN/EDIFACT (International standard of EDI).
  - ISO ➡ IWA
    - ISO does not have existing technical structures or experts for EDI standard.
    - ISO has a workshop mechanism for this kind of area.
  - MoU between IEC,ISO,ITU and UN/ECE

MoU on electronic business between IEC, ISO, ITU, and UN/ECE

"The purpose of the MoU is to minimize the risk of divergent and competitive approaches to standardization, avoid duplication of efforts and avoid confusion amongst users"
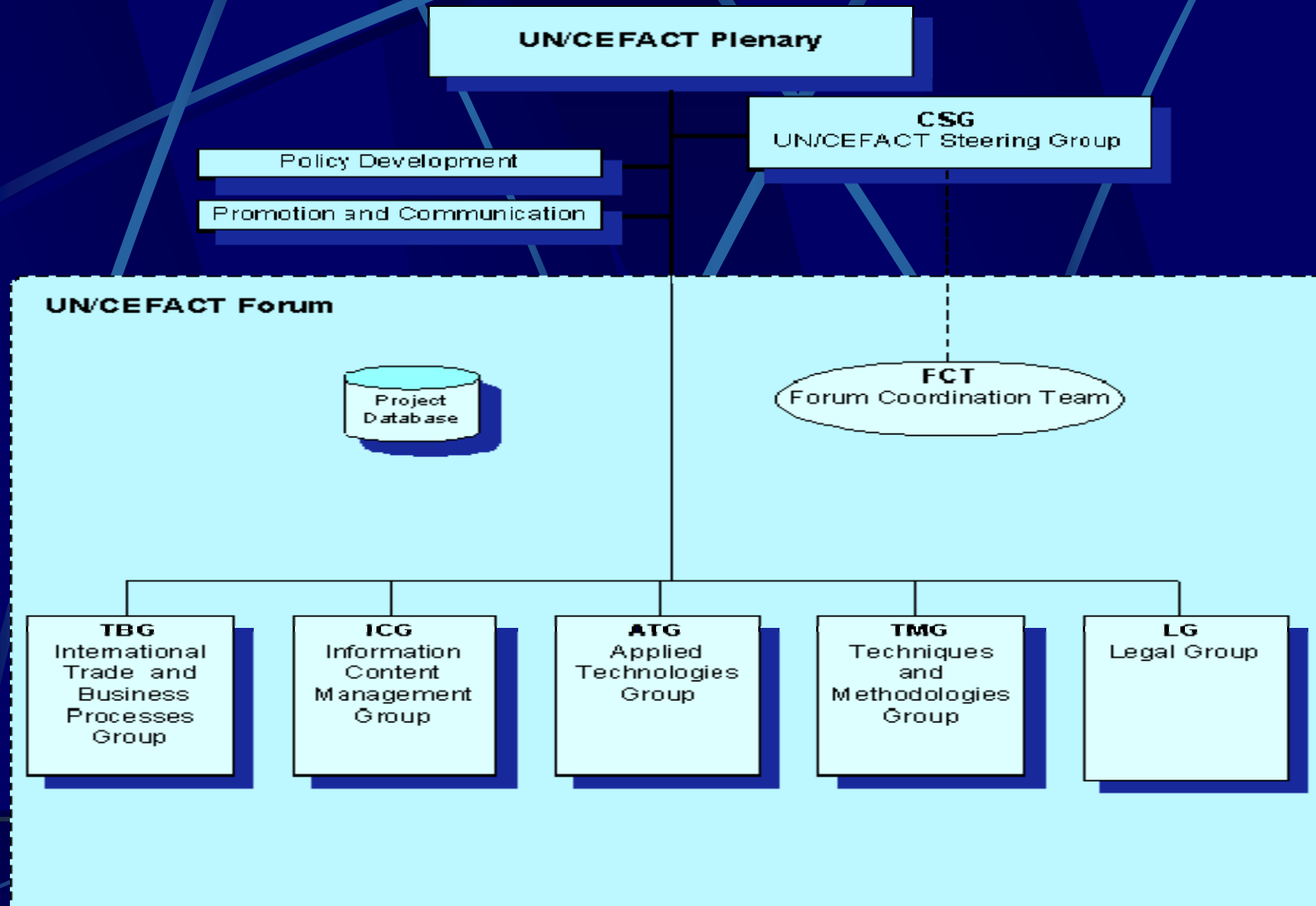
IEC
International Electrotechnical Commission

Memorandum of Understanding

ISO
International Organization for Standardization

MoU

ITU
International Telecommunication Union

UN/ECE
UN/Economic Commission for Europe

UN/CEFACT

120 member Countries Centre for Trade Facilitation and Electronic Business

Background

- About ebXML
  - Legacy EDI CII,EDFACT,ANSI X   vs. Internet EDI(ebXML)
  - Open EDI
    - Provides the only globally developed open XML-based Standard built on a rich heritage of electronic business experience.
  - ebXML was started in 1999 as an initiative of OASIS and the UN/CEFACT and published the first version in 2001.

The Organization of UN/CEFACT

The Organization of UN/CEFACT

UN/ECE

UN/CEFACT

ATG
Applied Technologies Group

ICG
Information Content Management Group

TBG
International Trade and Business Processes Group

TMG
Techniques and Methodologies Group

LG
Legal Group

TBG

TBG1	Supply Chain Management
TGB2	Digital Papers
TBG3	Transportation
TBG4	Customs
TBG5	Finance

TBG6 Architecture, Engineering & Construction

e-Tendering Project

TBG7	Statistics
TBG8	Insurance
TBG9	Travel, Tourism & Leisure
TBG10	Healthcare
TBG11	Social Security, Employment & Safety
TBG12	Accounting & Auditing
TBG13	Environmental Management
TBG14	Business Process Analysis
TBG15	International Trade Facilitation
TBG16	EDIFACT Entry Point
TBG17	Harmonization & Documentation
TBG18	Agricultural
TBG19	eGovernment

Japanese Standardizing Body

UN/CEFACT

TBG6

eTendering ebXML
Standards Project

Japan France, UK, US,
Sweden, Germany,
Czech Republic,
Korea, India

Japan

eTendering Standardizing Committee

Chair Person Prof. Ohashi (Chuo Univ.)
MLIT MIC METI
JASTPRO ECOM FBS CTIE
FMMC SCOPE JACIC

eTendering Standardizing WG

Japanese IT Venders

Home page

Mailing List

Secretariat   JACIC

Introduction of the Project

eTendering ebXML Standards Project

Host: TBG6(AEC)

Objectives:

Standardization of business processes, transactions and core components in the field of electronic tendering/bidding across industries.   >>Inter-sectorial Project

Introduction of the Project

Participating nation:
   France, UK, US, Sweden, Germany, Czech Republic, Korea, India, Japan

International meeting:
   -UN/CEFACT Forum   : 15 times
   -Interim meeting: 15 times
      (Paris, Tokyo, London, Reading, Seoul, Berlin)
   -Conference call On occasion demands with TBG
   -First version of the BRS standard has been published in 2005.

Scope:
   Focus on governmental procurements and
      -Tendering Subject   Works, Services & Goods
      -Tendering Method   Open Tender & Selective Tender

History of Development

- At Geneva on September, 2002
  - The Forum started from the elections of each group chair.
  - We started this project at the Geneva meeting.
  - We didn't know the work flow to get a stamp as a standard.
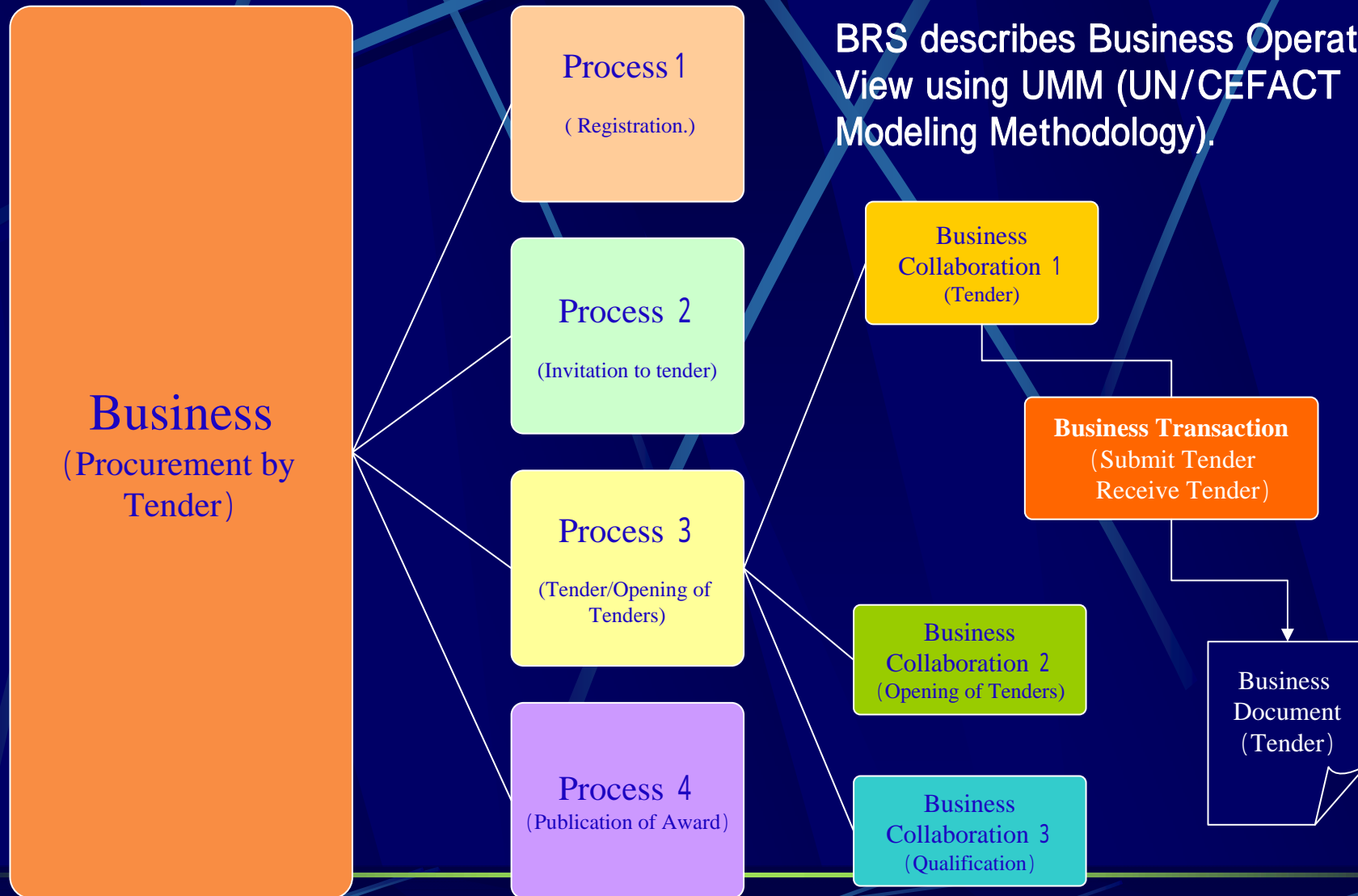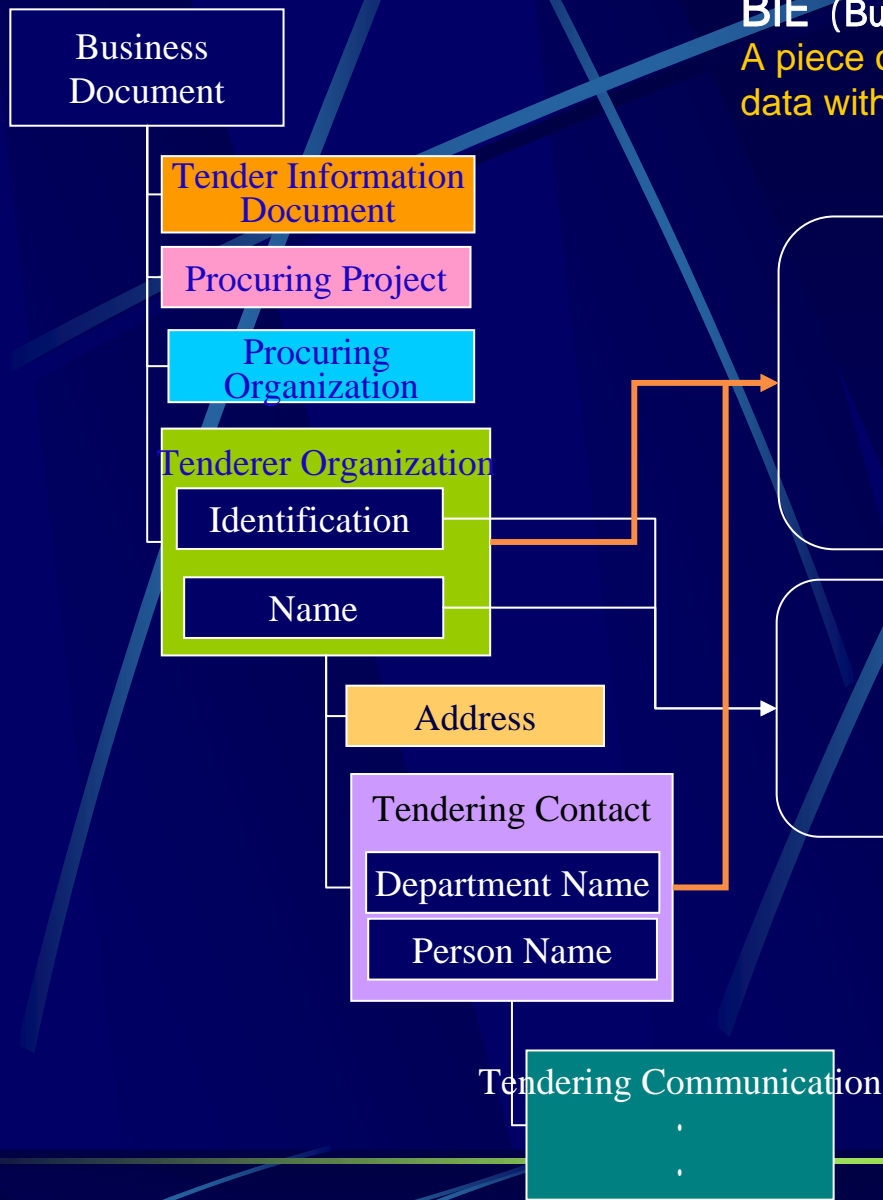 - F2F meeting ➡ Forum & Interim meeting

History of Development

- New organization & New technology
- It was unprecedented way of development of standards.
- The Japanese construction delegation proposed a first draft (using UMM methodology) describing the business processes and the first electronic flows.
- There are some differences between nations in procuring process
- The biggest one was the BoQ.
- Asia and EU
  - Korean delegation (PPS) is a good partner with us (Japanese delegation)
  - We (TGB6) are collaborating with CEN (European Committee for Standardization).

Business Document

Tender Information Document

Procuring Project

Procuring Organization

Tenderer Organization

Identification

Name

Address

Tendering Contact

Department Name

Person Name

Tendering Communication

BIE   Business Information Entity
A piece of business data or a group of pieces of business data with a unique *Business Semantic* definition.

ABIE   Aggregate Business Information Entity
A collection of related pieces of business information that together convey a distinct business meaning in a specific *Business Context*.
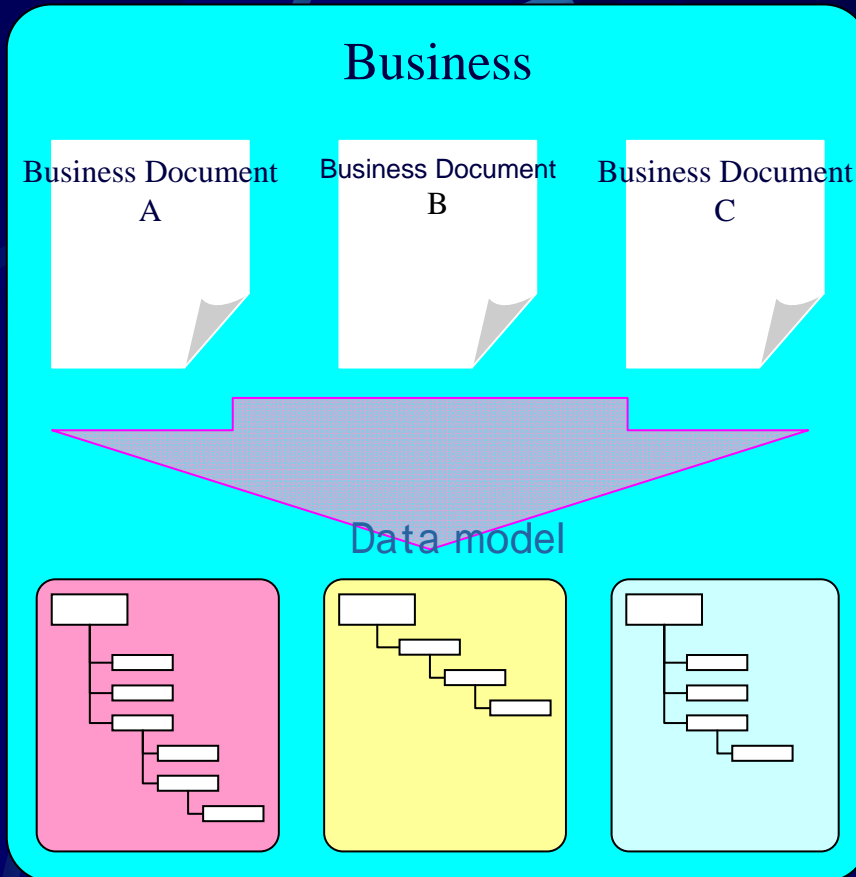The business information can be BIEs and ABIEs.
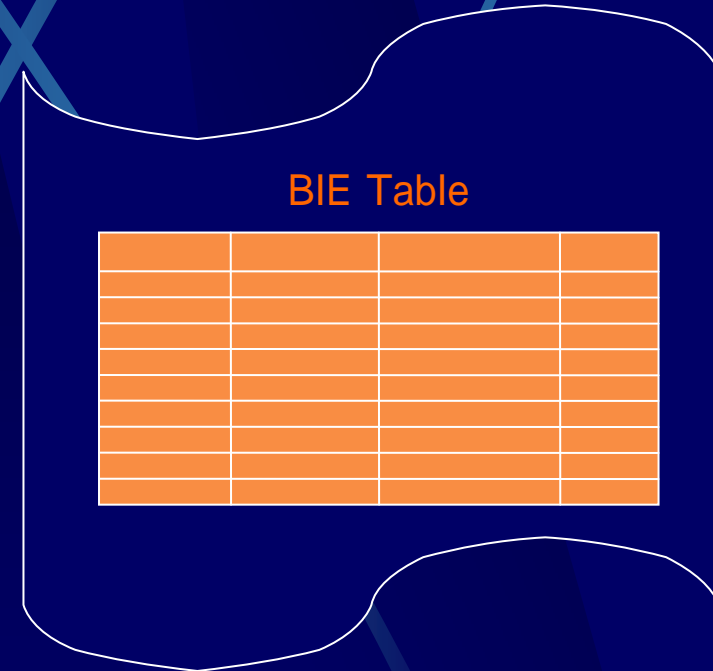
BBIE   Basic Business Information Entity
A *Business Information Entity* that represents a singular business characteristic of a specific *Object Class* in a specific *Business Context*. It has a unique *Business Semantic* definition.
Lowest level of BIE

RSM Requirement Specification Mapping

Business

Business Document A

Business Document B
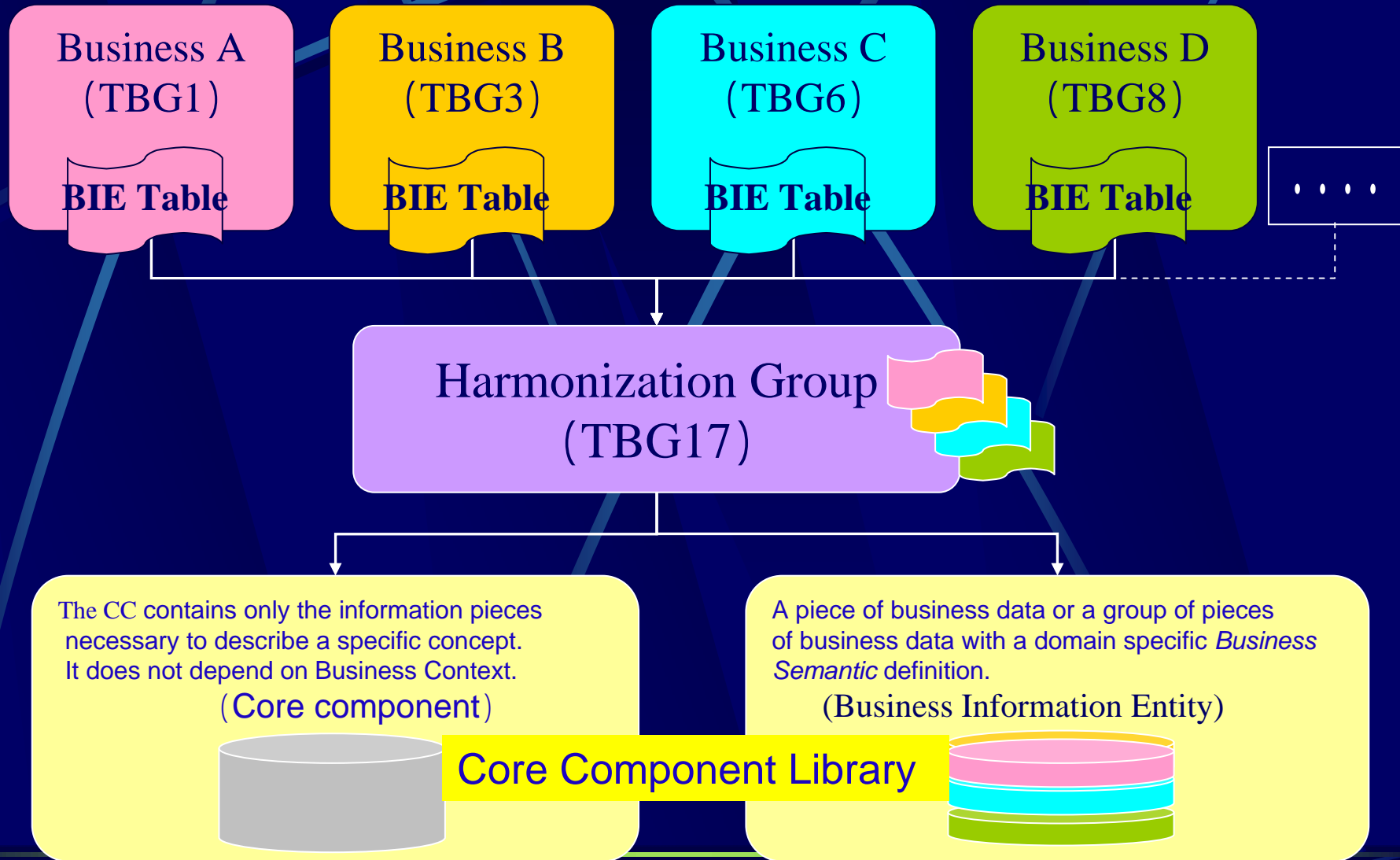
Business Document C

Data model

BIE Table

Data Models in each Business Documents are described in RSM.

Every Data component (BIEs) must be written in BIE table with definition, object class term, representation term, occurrence, and so on.

Harmonization and Core Component Library

Business A
TBG1

BIE Table

Business B
TBG3

BIE Table

Business C
TBG6

BIE Table

Business D
TBG8

BIE Table

Harmonization Group
TBG17

The CC contains only the information pieces
necessary to describe a specific concept.
It does not depend on Business Context.
Core component

A piece of business data or a group of pieces
of business data with a domain specific *Business
Semantic* definition.
(Business Information Entity)

Core Component Library

History of Development

- Joint Project with TBG1 at Bonn forum in March, 2004
- Harmonization by TBG17
  - F2F & Conference Call
- NDR(Naming and Design Rules)
  - The NDR include rules to ensure that CCTS (Core Component Technical Specification) conformant components are consistently expressed as XML – regardless of the business context or purpose.
  - The specification contains a set of rules governing extension and restriction, version management, and design.
  - Developed by ATG2
  - Project member tested draft version of NDR.
- ODP Step6
  - Implementation Verification

e-Tendering Project

March 2004 8th
TBG6
Project Leader: Jun-Ichi Yamashita

Status of the standard documents

- BRS(Business Requirement Specification)
  - V1(Works Domain) was approved by UN/CEFACT Plenary in June, 2005.
  - V2(Works, Goods, Services) was approved by TBG and has bee revised according to CCL06B
- RSM(Requirements Specification Mapping)
  - Harmonization completed at April, 2006.
  - It has bee revised according to CCL06B
- XML Schema
  - XML schema has been audited successfully by ICG in March, 2008.

e-Tendering

The objective of this work is the standardization of business processes, transactions and business information entities in the field of electronic tendering/bidding across industries. Version 1.0 focuses especially on the Works domain. The Goods and Services domains will be included in Version 2.0.

This document was developed by an eTendering project within TBG6 (Architecture, Engineering and Construction) under Mr. Jun-Ichi YAMASHITA (Fujita Business System Inc. / Japan) as the project leader, and with Czech Republic, France, Germany, Japan, Republic of Korea, Sweden and the United Kingdom as participating member countries.

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ОРГАНИЗАЦИЯ ОБЪЕДИНЕННЫХ НАЦИЙ

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RUSSIAN
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ЕВРОПЕЙСКАЯ ЭКОНОМИЧЕСКАЯ КОМИССИЯ

КОМИТЕТ ПО РАЗВИТИЮ ТОРГОВЛИ, ПРОМЫШЛЕННОСТИ
И ПРЕДПРИНИМАТЕЛЬСТВА
Центр по упрощению процедур торговли и
электронным деловым операциям (СЕФАКТ ООН)

Пункт 8 предварительной повестки дня
Одиннадцатая сессия, 20-23 июня 2005 года

Standardization War

- ePP (e-Procurement in Public sector)
  - Hosted by UN/CEFACT TBG19
  - They competed against us.
  - Finally, they decided to use our standards.
- BII (Business Interoperability Interfaces for Public procurement in Europe)
  - Hosted by CEN
  - They are collaborating with us.
  - Their representative has been a member of our eTendering project.
  - Now BII becomes PEPPOL (Pan European Public Procurement on-line)
- eNotification
  - Hosted by UN/CEFACT TBG19
  - Led by publications office of European Commission
  - They are still competing against us.
  - In the other hand, the gap analysis has been made by eNotification project team.

Real Implementation

- Virtual Implementation
  - By Japan, Korea, India
- Real Implementation in 2008
  - by France
  - Change Requests
- Maintenance Phase
  - Organization
  - Procedure

Promotion video of eTendering

The other projects in TGB6

- Project Schedule and Cost Performance Management
  - PMS EDI
  - Led by US DoD (DCMA) and Boeing
- Contract Financial Execution Management
  - Process after Tendering (Contract, Progress report, Invoice……)
  - Led by France

The mission of the Asian countries for the International standards

- The construction industry didn't show a spark of interest in the international standards.
- In the European countries, there are no borders for the economical activities.
- Now, US and EU recognize the Asia as a important partner.
- It's time to think and act as internationally for the Asian countries.

Thank you for your attention!