

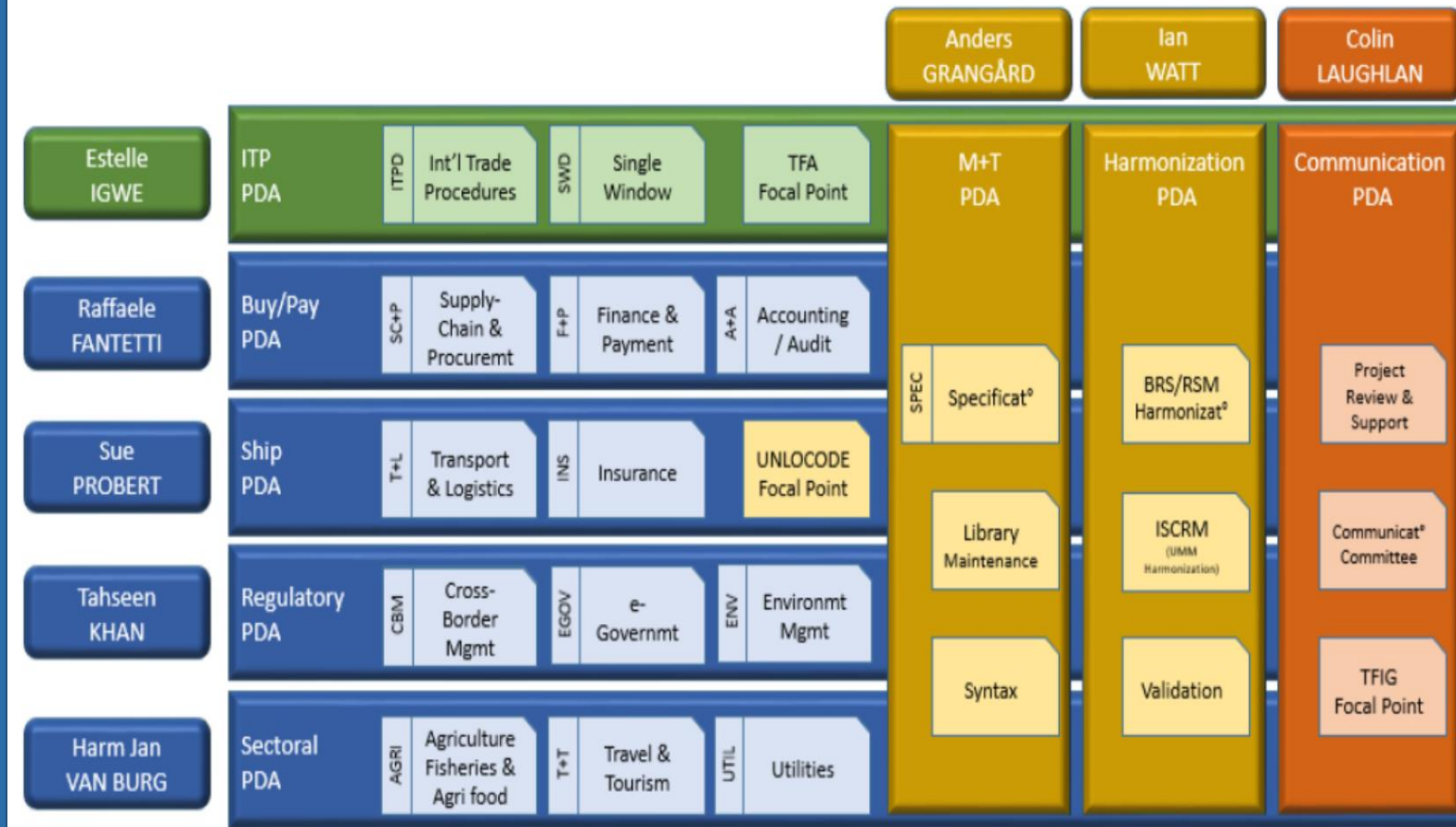
Why does it
matter ?

Why reintroduce
Harmonization
now ?

What could be the
impact on PDA's ?

Harmonization PDA

UN/CEFACT Bureau From 04/2017



An Opportunity like no other

- UN/CEFACT is poised to significantly contribute to:
 - Blockchain enabled “Trust” applied to the supply chain
 - Internet enabled “Collaboration” applied to the supply chain “Data Pipeline”
 - The uptake of process driven not document only driven supply chains
 - Deployment of UN/CEFACT’s Reference Data Model approach
- To deliver UN/CEFACT must now focus on processes and choreography moving beyond primarily only message definition

The baseline from where to start

- The baseline will be evident by analysis of:
 - UNECE UN/CEFACT Bureau – “UN/CEFACT Deliverables Use” survey
 - Examination of the existing published material as evident in the survey

Begin with the
end in mind

The intent
was clear

- The following 'blue' slides are extracted from the 2002 presentation at the formation of UN/CEFACT.
- The intent was comprehensive addressing of processes, choreography and data, harmonised at the process and data levels
- UMM/ISCRM & CCTS/CCL.
- This overall coverage of harmonised processes, choreography and data must be achieved to support Reference Data Models, process driven 'trusted' supply chains, SME enabling.

Presented
2002 at the
launch of
UN/CEFACT

UN/CEFACT

The UN Centre for Trade Facilitation and Electronic Business

Its objective is to contribute to the growth of world trade by making practical contributions to trade facilitation and e-Business which measurably benefit developed, transition, and developing economies, and their enterprises, irrespective of the size of the enterprise.

Established in Geneva in 1997, it has a global remit and encourages close collaboration between public organisations and private business.



UN/CEFACT

The Vision

UN/CEFACT

The UN Centre for Trade Facilitation and Electronic Business

*Its vision is to develop and promote simple,
transparent, effective processes for global
commerce*



UN/CEFACT

Business Process
Information
Modelling is the
basis of the Centre's
approach

UN/CEFACT

The UN Centre for Trade Facilitation and Electronic Business

- Trade Facilitation work started in 1960 and has resulted in over 25 UN Recommendations to governments covering best practice in international trade, the rationalisation of global trade procedures, and the development and use of international codes
- Electronic Business work started in 1975 and has resulted in UN Recommendations to governments covering the global EDI standard – UN/EDIFACT – and the legal aspects of e-Commerce and e-Business.
- Business Process Information Modelling is the basis of the Centre's approach to both Trade Facilitation and e-Business



UN/CEFACT

Model and
rationalise business
processes

Core Components

Prepare for
emerging
technologies

UN/CEFACT

The UN Centre for Trade Facilitation and Electronic Business

Therefore, the strategy is to:

- ❑ model, analyse and rationalise business processes;
- ❑ develop business semantics (core components) that are technology neutral; and
- ❑ use current and emerging technologies to structure and transfer the business information.

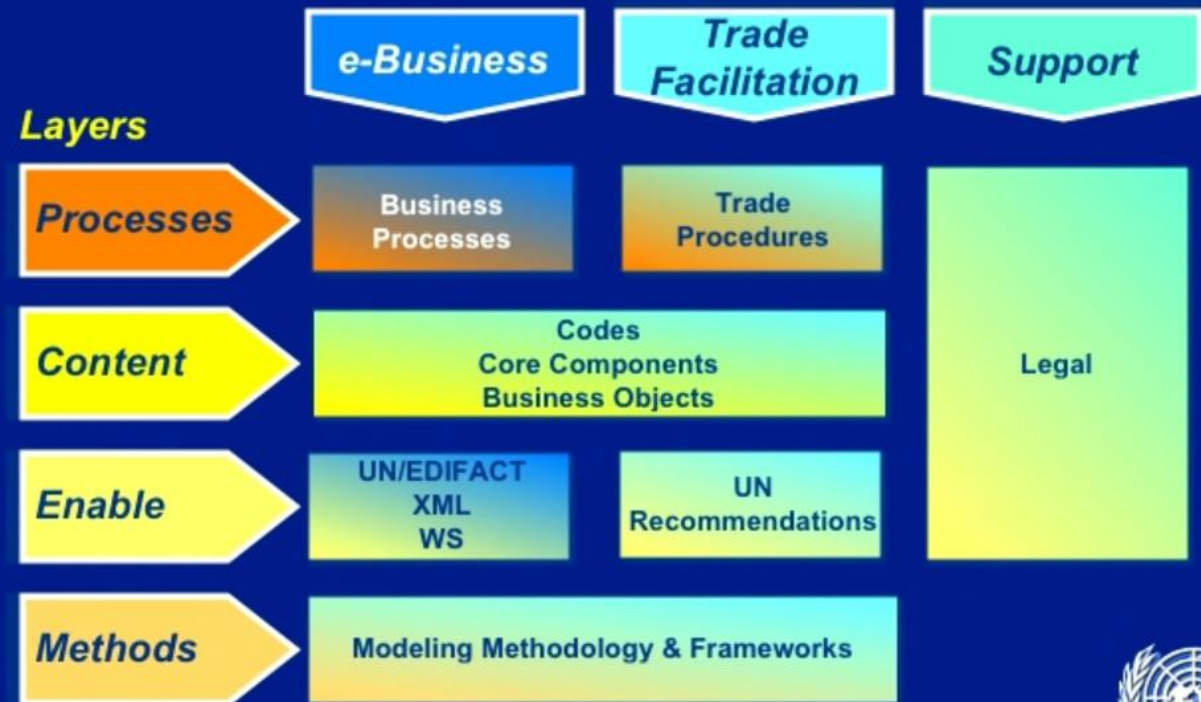


UN/CEFACT

Standardization

The big picture on one page

UN/CEFACT groups cover all layers of standardization



UN/CEFACT

Orchestration

The Dance

The Conversation

The rules of the game

Orchestration

means many activities working in harmony
to achieve business goals

Related Metaphors:

- **Choreography** - partners in a dance
- **Conversation** - dialog, give-and-take
- Rules of a **game** - taking turns, playing tennis



UN/CEFACT

Business
already
knows how
to
Orchestrate
Deals

Business already knows how to
orchestrate deals

- **Negotiation**
 - Offer and Counter-offer
- **Offer and Acceptance**
- **Commitment and Fulfillment**
- **Deliver** the goods and **Pay** for them



UN/CEFACT

BUT

How to digitise
the
conversation



How to make
computers understand
business conversations?

Put your **business commitments**
into the system



UN/CEFACT

UMM

UMM Logic Chain

- **Business commitments** are a set of expected business results
 - Promise to deliver a compliant product
- **Fulfillment** is the accomplishment of the expected business result
 - Proof of delivery and product acceptance
- So we **organize e-Business activities to fulfill business commitments**
 - Quote, order, ship, receive, accept, and pay



UN/CEFACT

Passing the baton along the information supply chain aligned to the physical supply chain

Business Entity Flow Graph

Business Entity state

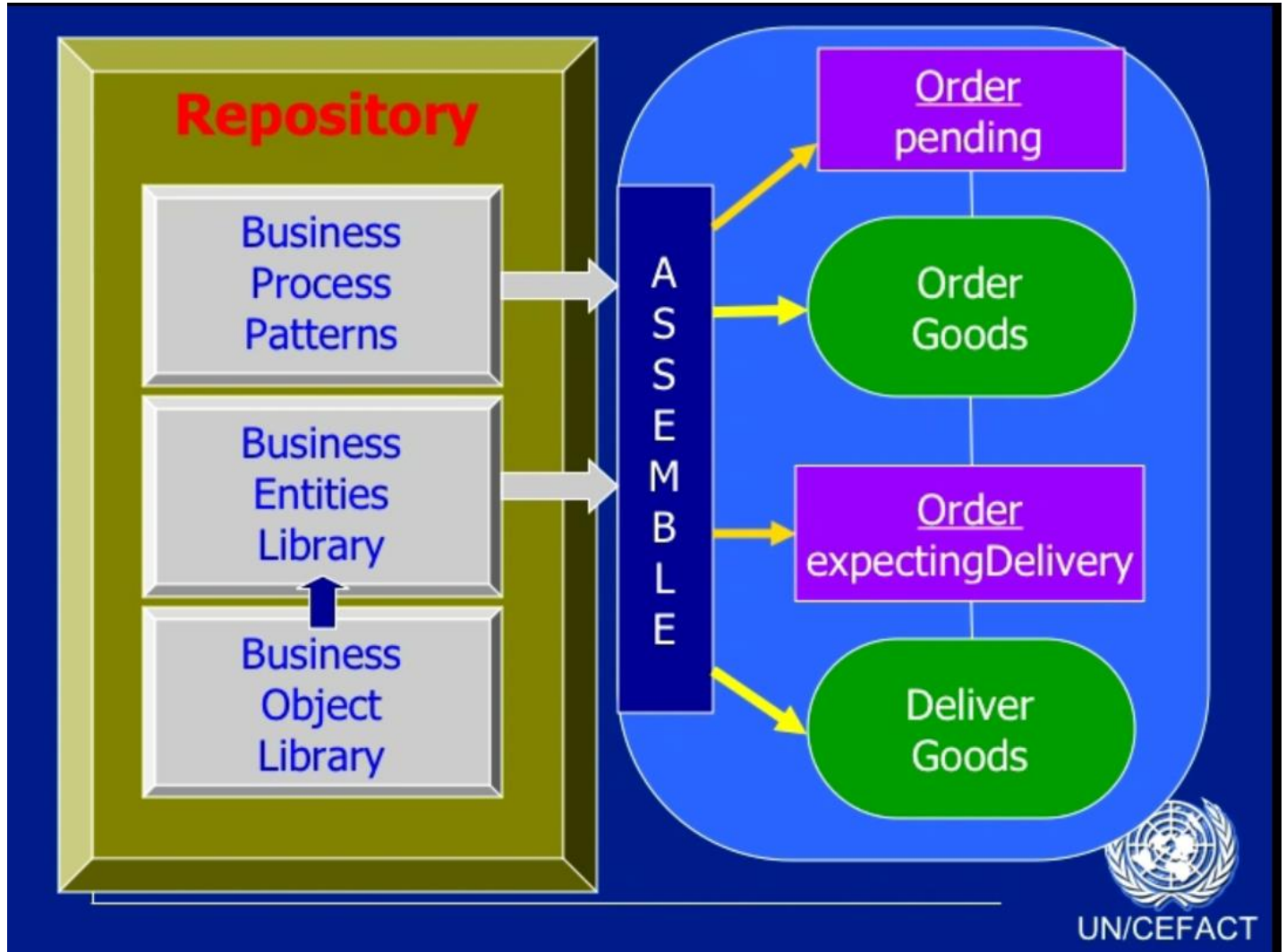
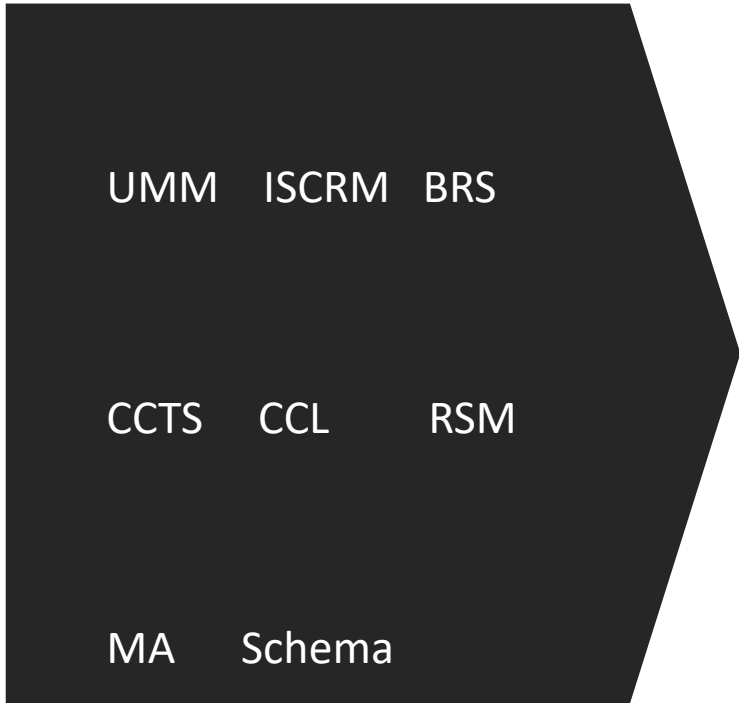
Business Collaboration Activity

Business Entity resulting State

Enabled Activity



UN/CEFACT



UN/CEFACT's
opportunity

Where **Orchestration Layer*** fits



* Source: UMM



UN/CEFACT

Baseline Status

- Initial research and analysis indicates that there has been a focus for some number of years on primarily message development at the expense of process and choreography
- There is evidence that Business Requirements Specifications (BRS) and Requirements Specification Mapping (RSM) documentation is not aligned with the CCL and schema (Messages) being advanced over both
- To what extent does this matter or not ?

Baseline Status Impact

- For existing users of UN/CEFACT messages (schema) and EDIFACT messages, there has been no negative impact, for what they required UN/CEFACT was clearly delivering.

HOWEVER

- To support process driven and blockchain “trust” enablement UN/CEFACT must deliver also on processes and choreography

Example BRS RSM CCL/schema analysis

SCRDM CII existing BRS, RSM, CCL/schema advanced on BRS, RSM

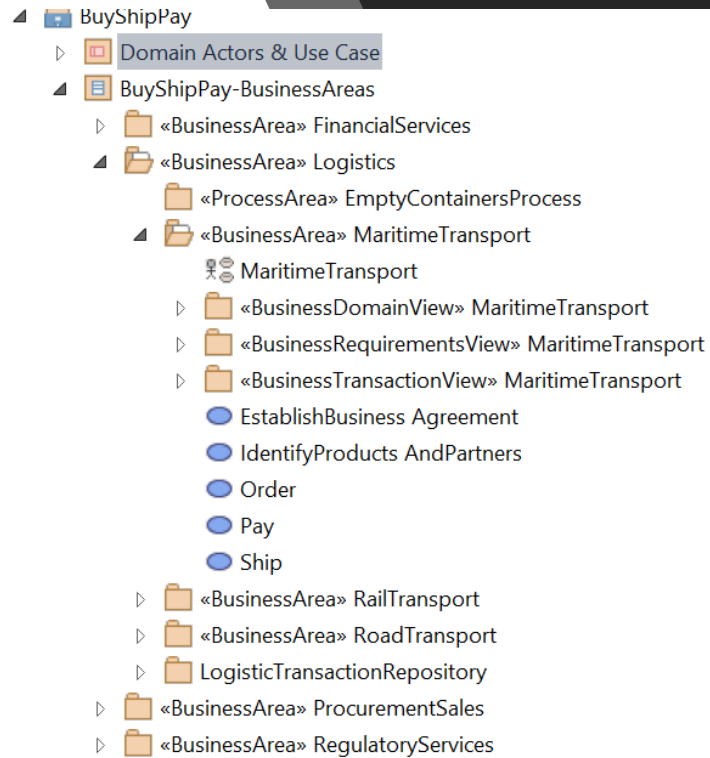
Process	# BR	Matched on BR-ID	%	Candidates found	%	Total matched	%	No match	Not in BRS
Catalogue	326	100	31%	145	44%	245	75%	81	Not checked
Quotation	142	-	-	108	76%	108	76%	34	66
Ordering	128	40	31%	78	61%	118	92%	10	Not checked
Delivery	192	50	26%	74	39%	124	65%	68	Not checked
Remittance	52	-	-	42	81%	42	81%	10	Not checked

ISCRM

- Domain Actors & Use Case
 - BSP Domain Use Case
 - Illustration
 - Authority
 - Customer
 - Intermediary
 - Bank-FinancialInstitution
 - Broker
 - CarriagelInsurer
 - Carrier
 - CommissionAgent
 - CreditCheckingCompany
 - CreditInsurer
 - CustomersBank
 - ExportAgent
 - FreightForwarder
 - ImportAgent
 - Importer
 - InspectionCompany
 - ReceivingAuthority
 - SuppliersBank

- Understanding Domains, Actors & Use Cases

ISCRM



- Understanding Business Areas & the processes, choreography and data

ISCRM

- Getting at the detail
- Realizing the opportunity and delivering the benefits of harmonization

