

UN/CEFACT



Sustainable and Digital Trade Facilitation Week



8-12 July 2024



Palais des Nations
Geneva

42nd FORUM



30th PLENARY



PARALLEL SESSION T&T | Fostering Sustainable Travel and Tourism through e-business Standards *Travel and Tourism Domain*



Nancy Norris
Vice Chair, UN/CEFACT



Sachin Mehta
Domain Coordinator,
Travel and Tourism



Tain-Tsair Hsu,
Chairman
Commerce Development
Research Institute

UN/CEFACT



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PARALLEL SESSION T&T | Fostering Sustainable Travel and Tourism through e-business Standards *Travel and Tourism Domain*



Mr. Sachin Mehta

Domain Coordinator, Travel and Tourism
MD Stuti Tourism Pvt Ltd



Mr. Tain-Tsair Hsu

Chairman
Commerce Development Research Institute



Mr. Tunghua Tai

Leader, Project of CEFACT
General Manager, Siloam Travel Agency



Mr. Kazuyoshi Itagaki

Sub Leader, Project of CEFACT
AFACT expert



Mr. Anthony Chien

Deputy of Director, CIDS,
Commerce Development Research Institute
Deputy Secretary General, AFACT



Mr. Tadashi Ishihara

Sub Leader, Project of CEFACT
Executive Supervisor of JTREC

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Fostering Sustainable Travel and Tourism through e-business Standards

- This session will delve into the transformation of Application Programming Interfaces (APIs) pertaining to Electronic Press (EP) technical components that incorporate sustainability claims.
- It will explore the dynamics of package tours offered by both the Travel Agency and Destination Management Company & Destination Management Organization (DMC&DMO) within the travel industry, considering their alignment with the United Nations Sustainable Development Goals (SDGs).



Mr. Sachin Mehta
Domain Coordinator
Travel and Tourism

Sachin Mehta is the Founder and CEO of Stuti Tourism Pvt Ltd and a veteran in the tourism industry. Having completed his Travel and Tourism Techniques in 1992, he has been at the forefront of innovating and diversifying experiential and educational tourism. Sachin has played a pivotal role in developing many unexplored tourism destinations, successfully bringing them onto the tourism map. Additionally, he serves as the Travel & Tourism Domain Coordinator at the United Nations UN/CEFACT, contributing his extensive expertise to global tourism development.

Sachin Mehta, MD Stuti Tourism Pvt Ltd

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Mr. Tain-Tsair Hsu

Chairman

Commerce Development Research Institute

Mr. Tain-Tsair Hsu is currently the chairman of the Commerce Development Research Institute (CDRI), leading the team performance to grow annually (the revenue growth grows by about 75% in 2021 compared to 2016 when he first took over). He served as the mayor of Tainan City for nine years. During his tenure, he promoted the business competitiveness of urban culture. While being the economics lecturer at Chinese Culture University and Huagang Internship Bank's General Manager, he tackled the financial distress of 15 years. He was also a legislator for 15 years and has been ranked among the top ten outstanding legislators in "legislators" evaluations over the years. Ph.D. Candidate in Economics, New School for Social Research and Ph.D. Studies in Business Management, Rutgers University in USA is his highest education. He also owns a professional background in economics, finance, management and other related fields.

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Mr. Tunghua Tai

Leader, Project of CEFACT

General Manager, Siloam Travel Agency

**UN/CEFACT Position
Expert**

**Areas of Interest
Travel / Tourism**

Expertize

**Business process modelling,
Communications / writing / web
development / advertising / video,
Data modelling, XML / schema
production / methodology**

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Mr. Anthony Chien

Deputy of Director, CIDS,

Commerce Development Research Institute

He is also known as Anthony Chien. He is the Research Fellow of International Digital Commerce Research Division, Commerce Development Research Institute(CDRI) for research and analysis the industry of the international digital commerce and communications with more than 20 years of experience in technology industry. The CDRI is also a semi-government research institute controlled by The Ministry of Economic Affairs(MOEA) of Taiwan. At the present, He is also both the expert of UN Centre for Trade Facilitation and Electronic Business (UN/CEFACT) and the chair of the TT&LWG and Deputy Secretary General, Asia Pacific Council for Trade Facilitation & Electronic Business (AFACT). Before he also has been the Deputy Convenor of the Liberalization Steering Group (LSG) of APEC Telecommunications and Information Working Group.

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Travel Agency and DMC&DMO Package Tour Project

–Business Requirement Specification (BRS)

Mr. Tunghua Tai / Founder, Siloah Travel / tunghua.tai@gmail.com

Dr. Anthony Chien / Deputy Director of CIDS, Commerce Development Research Institute / anthonychien@cdri.org.tw

10 July 2024

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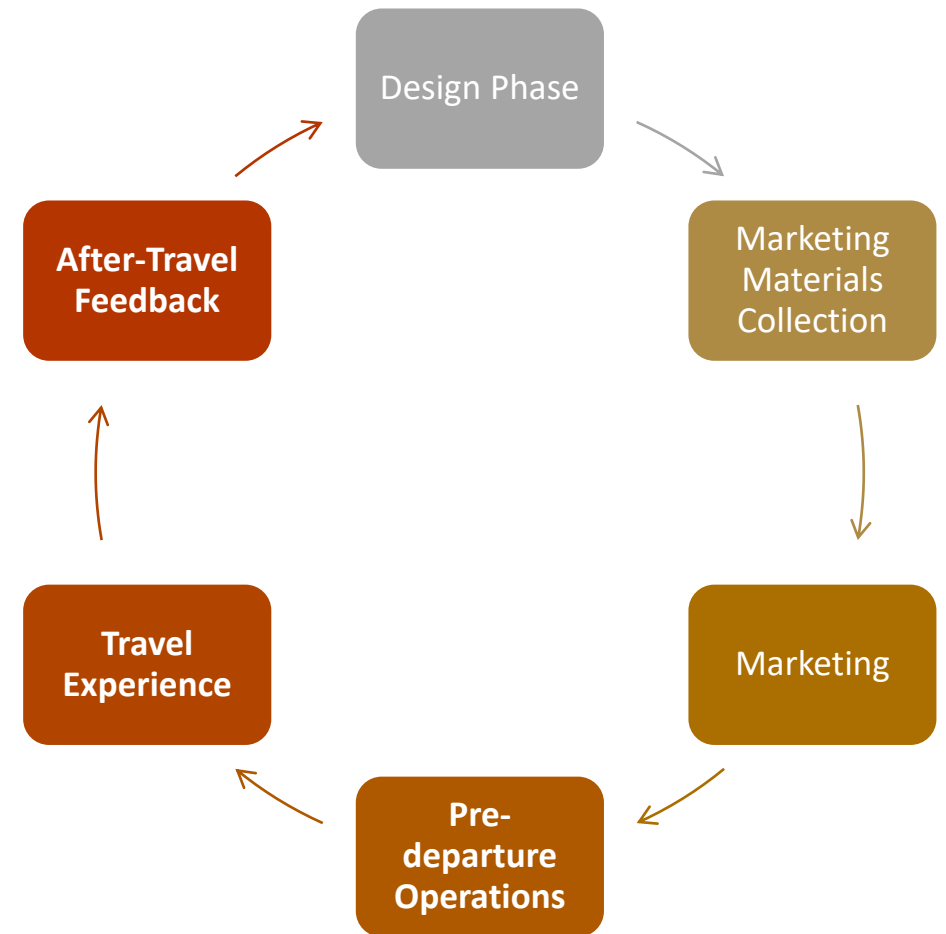
Icons: calendar, location pin, QR codes, globe, bar chart, hand holding coin, stack of coins, person icon, leaf, circuit lines.

I. Introduction

- The United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) is spearheading a crucial initiative to standardize data exchange in the travel industry.
- This Business Requirement Specification (BRS) outlines the framework for a Package Tour Reference Data Model Project, addressing the evolving landscape of travel agencies, Destination Management Companies (DMCs), and Destination Management Organizations (DMOs).
- As the industry grapples with the dominance of Online Travel Agencies (OTAs) and the rise of Free Individual Travel (FIT), this project aims to empower traditional agencies and DMCs/DMOs by establishing standardized protocols for data exchange, ultimately enhancing the creation and management of comprehensive package tours.

II. Project Purpose and Scope

- The primary objective of this project is to develop a comprehensive reference data model that integrates of package tour management. This model will serve foundation for enhancing operational efficiency, customer experiences, and boosting the competitive travel agencies, DMCs, and DMOs in an increasingly market.
- The scope encompasses the entire lifecycle of tours, from initial planning and pricing to booking travel feedback. By standardizing data formats and the model aims to reduce errors, eliminate ensure information reliability across various platforms systems used by industry stakeholders.



Travel Agency and DMC & DMO Package Tour Project

Project purpose(1/4)

- “Package Tour” has been the most popular way of travel in the past century.
- Hundreds of thousands travel agencies and Destination Managing Company (DMC) and Destination Managing Organization (DMO) are servicing travelers in this industry, since Internet was invented.
- Big OTAs (Online Travel Agency) are prominent in the industry, using IATA airline standards, and OTA (Open Travel Alliance) hotel booking standards, traditional travel agencies and DMCs/DMOs are being left behind at this Internet travel trend.
- They don't have a sector relevant standard for exchanging data between each other.

Project purpose(2/4)

- In this OTA era, people tend to travel FIT (Free Individual Traveler), but the fact is distinctions suitable for FIT is limited by security condition, transportation convenience condition and language barrier etc., the result for FIT is finally most travelers stay in big city.
- OTAs are only “matching platform” for traveler and travel resources.
- The opportunity and requirement are for Travel Agency coordinating with DMCs can provide service and knowledge added value to design better itinerary and bring travel to wider choice of destinations.

Project purpose(3/4)

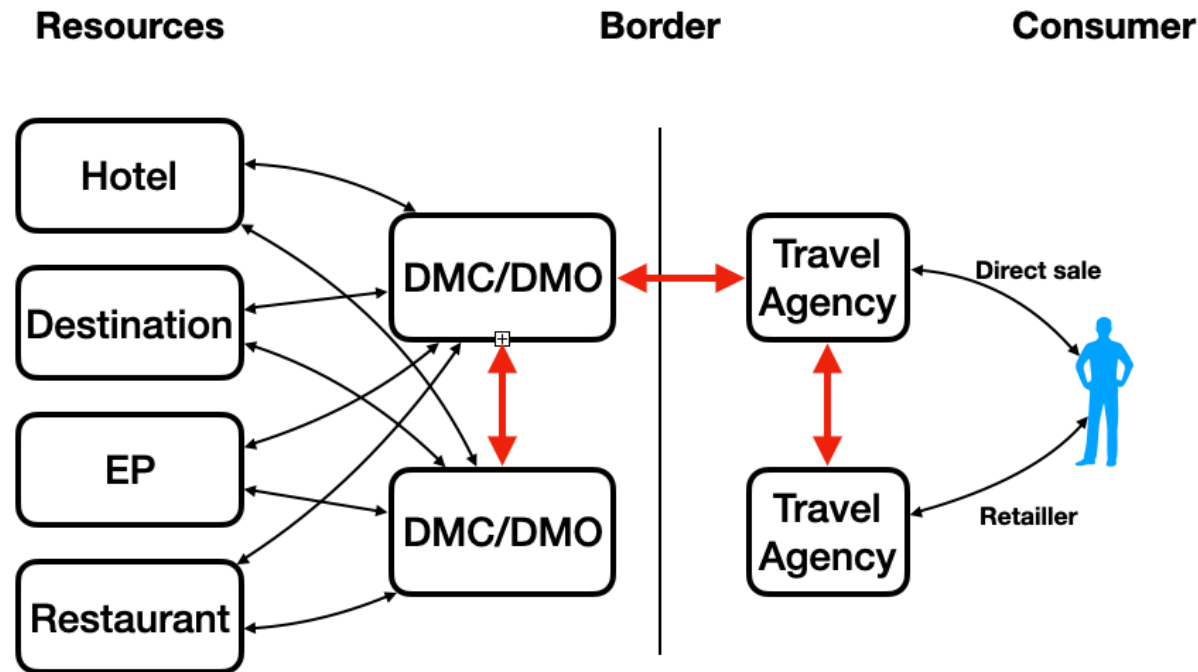
- Before actual travel occur, the product in travel industry is only “information”, no physical products exist, and most of travel agencies and DMCs are small and medium business entity where currently no open standards exist.
- Currently the big OTAs are all making their own API rules them self, without a global API standard, OTAs connecting each other by using all different API standards are very big and expensive task already.
- Without recognized open standards SME MSME travel agencies are inhibited from contributing to the industry.

Project purpose(4/4)

- The small Travel Agencies to develop software to connect to different OTAs by different API standards is nearly mission impossible, open global standards as produced by UNECE-UN/CEFACT and the purpose of this project will overcome this challenge.
- The challenge facing the SME travel Agency is the same as faced by SME's in global trade of goods.
- UNECE-UN/CEFACT mission is to produce standards bridging the gap between large corporate bespoke platforms and SME engagement in the industry.
- The purpose of this project is to design a set of API standard for exchanging "Itinerary", "Quotation", "Package Tour", "Traveler", and "Review" data between for travel agencies (including traditional travel agencies and OTAs), between travel agencies and DMCs, and between DMC to DMCs.

Project scope (1/2)

- The project enables replacing the current emails and spreadsheets used to exchange tour package data between Travel Agencies (mostly SME's) and Destination Managing Company (DMC) and Destination Managing Organization (DMO) with harmonized data and comments.
- (Ref red arrows in the diagram below). This will deliver additional semantic data definition into the CCL, RDM establishing the ability to write standardized APIs.



Project scope (2/2)

- The project is to produce definitions and Reference Data Models (RDM) on Travel Agency, Destination Managing Company (DMC) and Destination Managing Organization (DMO) API. It does not deliver a certification system but it provides elements upon which certification or labeling systems could be build.
- The project will also deliver components of future recommendations to government to facilitate, promote Travel Agency, Destination Managing Company (DMC) and Destination Managing Organization (DMO).
- The project will take in consideration work which has been produced by UN/CEFACT on White Paper on the technical applications of Business Standards for Sustainable Tourism being a subset of sustainable tourism products.
- ITEMS:
 1. Itinerary, 2. Quotation, 3. Tour, 4. Traveler, 5. Review
- PHASES:
 1. Design, 2. Marketing, 3. Booking, 4. Traveling, 5. After Travel

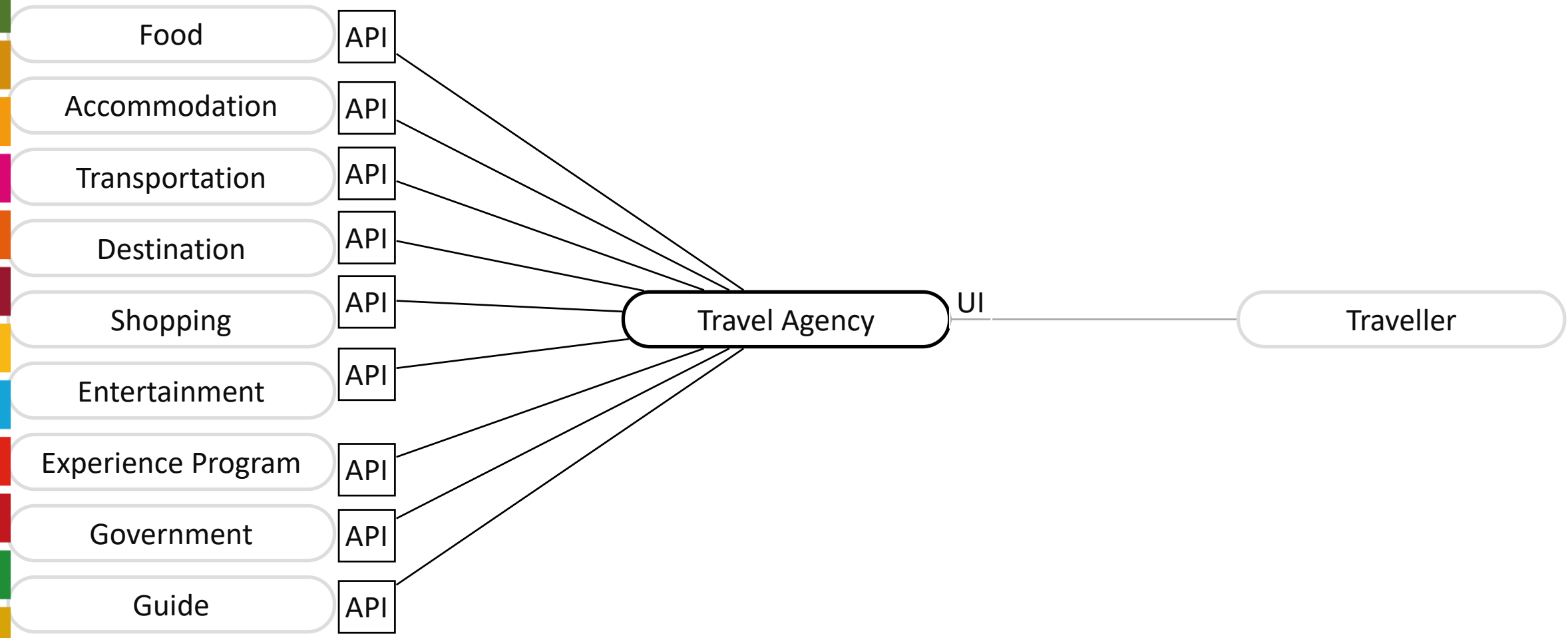
Travel Agency Data Exchange

1. Big picture for Travel Industry
2. Existing API Standards
3. Package Tour vs FIT
4. How Package Tour Works Without API
5. 5 Travel Phases and Data Exchange
6. Open Data for Travel Industry
7. Challenges for Travel API

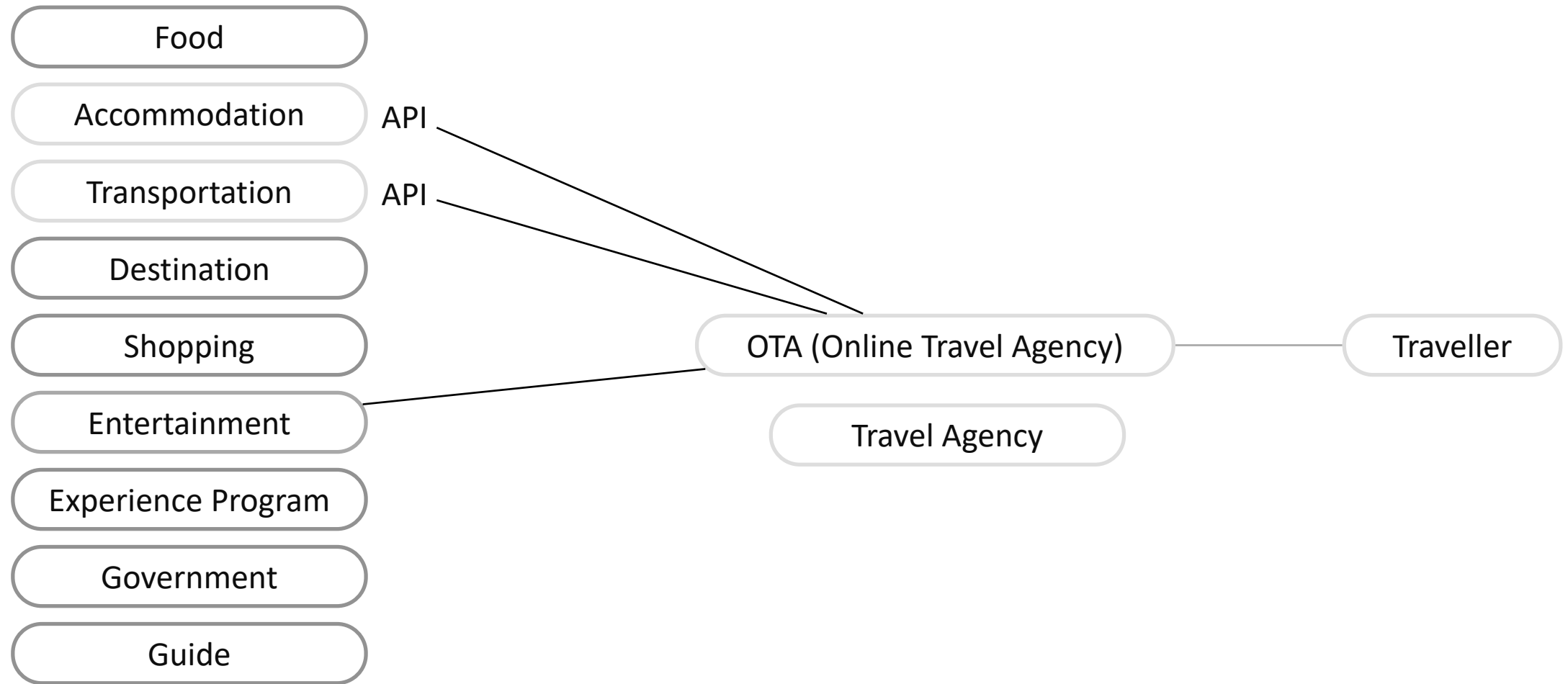
Travel Industry

		Existing API Standard
Food	Restaurant	
Accommodation	Hotels, B&B, Lodging House	Open Travel Alliance (XML), SLH
Transportation	Airline, Train, Cruise	NDC by IATA (XML)
Destination	Museum, National Park	
Shopping	Gift Shops	
Entertainment	Theater, Opera, Theme Park	
Travel Agency	Agency, DMC, DMO, Guide	
Local Government	Tourism Bureau	
Experience Programs	Culture Experience, Activities, Excursion	EP project
Traveler		

Future Goal



FIT (Free Independent Traveler)



III: Key Stakeholders and Roles

The Package Tour Reference Data Model Project involves a complex ecosystem of stakeholders, each playing a crucial role in the creation, management, and execution of package tours. Understanding these roles is essential for developing a comprehensive and effective data model that addresses the needs of all parties involved.



Traveler

The end consumer of travel products and services, seeking unique and tailored experiences across various destinations.



Travel Agency

Intermediaries that understand traveler needs, provide advice, and plan suitable itineraries, often collaborating with DMCs.



DMC/DMO

Local experts responsible for executing travel arrangements and promoting destinations to attract tourists.



Travel Component

Various service providers including hotels, restaurants, tour guides, and attractions that form the building blocks of package tours.

Phase I: Design

The design phase is a critical stage in package tour development, where travel agencies and Destination Management Companies (DMCs) collaborate to create tailored itineraries. This process requires a delicate balance of traveler preferences and destination expertise, often involving multiple rounds of communication and refinement.



1 Initial Requirements

Travel agencies propose design requirements to DMCs based on their experience and traveler discussions, considering demographics, seasonality, and budget constraints.

2 Resource Integration

DMCs integrate local tourism resources according to the agency's requirements, designing tour products and providing initial itineraries and quotations.

3 Feedback and Revision

Travel agencies review the proposed itineraries and provide feedback, which DMCs incorporate into revised versions, ensuring optimal alignment with traveler expectations.

4 Finalization

After several iterations, a finalized itinerary is agreed upon, balancing traveler preferences, destination highlights, and logistical considerations.

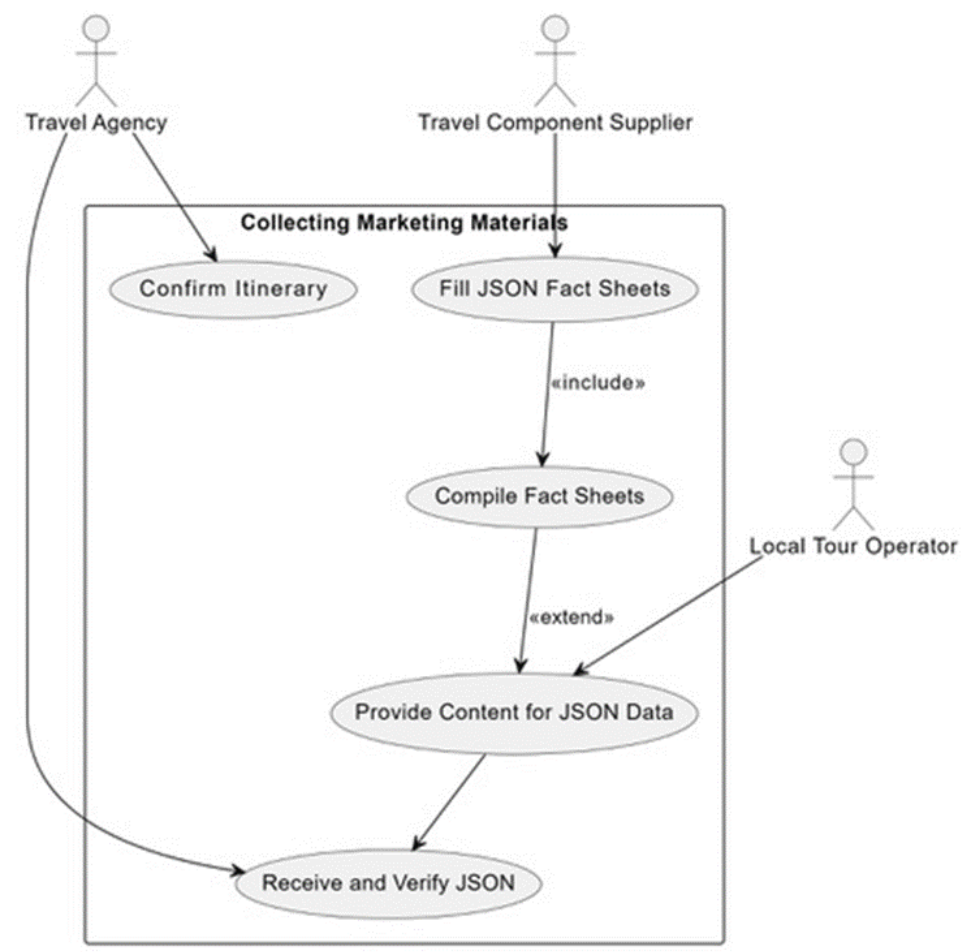
Phase II: Marketing Materials Collection

The collection and standardization of marketing materials is a crucial step in creating cohesive and appealing package tours. This phase involves the meticulous gathering of information from various travel component suppliers and its transformation into a standardized format for seamless integration and presentation.

JSON Fact Sheets

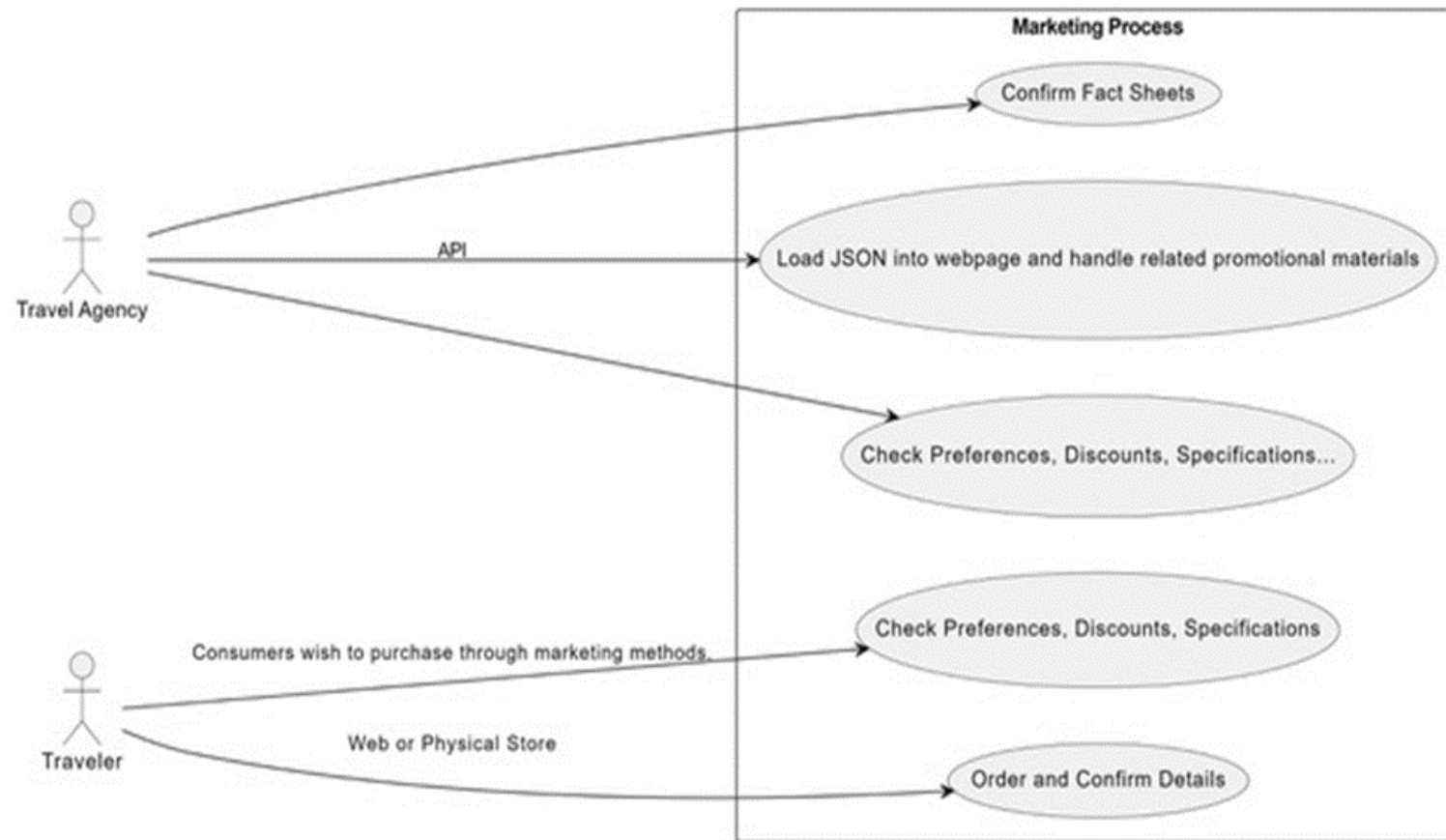
DMC Proposal Integration

Travel Agency Verification



Phase III: Marketing

The marketing and booking phase is where the carefully crafted package tours are presented to potential travelers and transformed into confirmed bookings. This stage leverages both digital and traditional marketing channels to reach a wide audience and facilitate seamless booking experiences.



Phase IV: Pre-departure Operations

The pre-departure phase is a critical period where confirmed bookings are transformed into fully-realized travel experiences. This stage involves meticulous planning, coordination, and verification to ensure all aspects of the package tour are in place before travelers embark on their journey.

Order Processing

Travel agencies confirm orders with local operators, who then verify details with travel component suppliers. Any issues are promptly addressed, with solutions proposed to customers if necessary. The group is finalized when the minimum number of participants is met.

Passenger List Confirmation

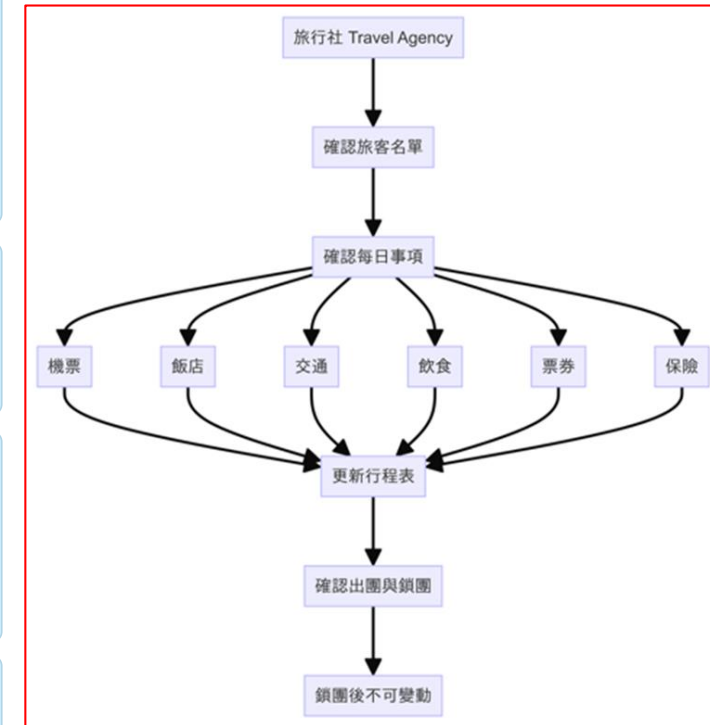
Agencies compile and verify the final passenger list, ensuring all traveler information is accurate and complete. This list forms the basis for subsequent operational tasks.

Travel Component Verification

Each element of the tour is confirmed, including flights, hotel room assignments, transportation arrangements, meal requirements, admission tickets, and insurance coverage. This process ensures all components align with the finalized itinerary.

Group Lock and Final Confirmation

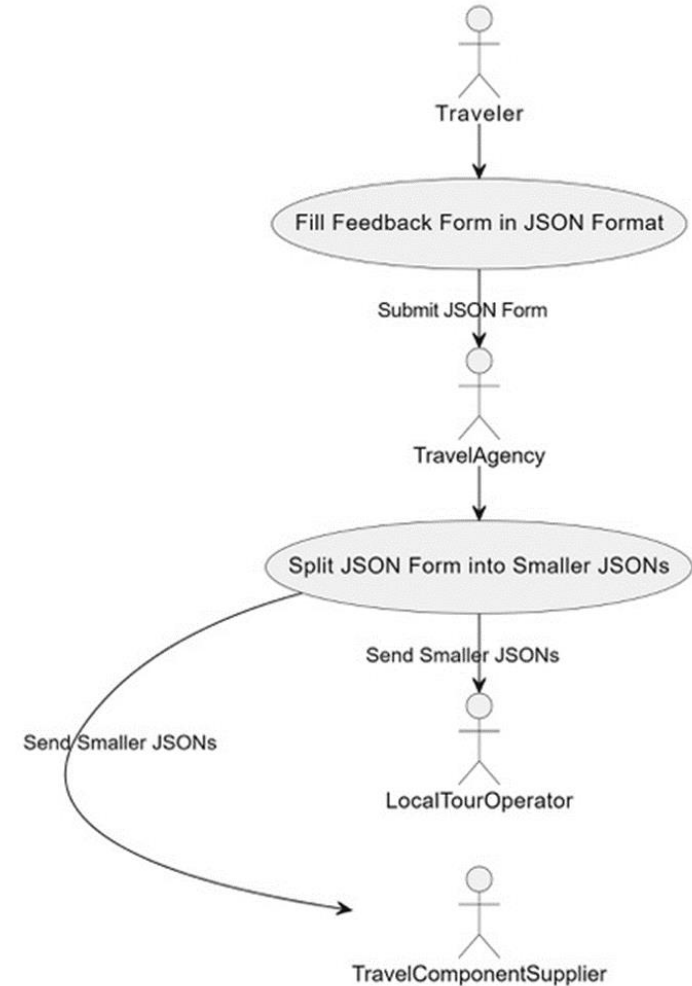
Once all verifications are complete, the group is "locked," preventing further changes except for cancellations and refunds as per standardized travel contracts. This final step ensures operational readiness for the tour's commencement.



Phase VI: After-Travel Feedback

The post-travel phase is crucial for maintaining service quality and driving continuous improvement in the package tour industry. By systematically collecting and analyzing traveler feedback, travel agencies and their partners can refine their offerings and enhance future travel experiences.

Process Step	Responsible Party	Action
Feedback Collection	Traveler	Complete online feedback forms
Data Standardization	Travel Agency	Convert feedback to JSON format
Data Distribution	Travel Agency	Segment and send JSON data to relevant suppliers
Analysis	All Stakeholders	Review feedback and identify improvement areas
Implementation	All Stakeholders	Incorporate insights into future tour planning



Thank you for your attention!

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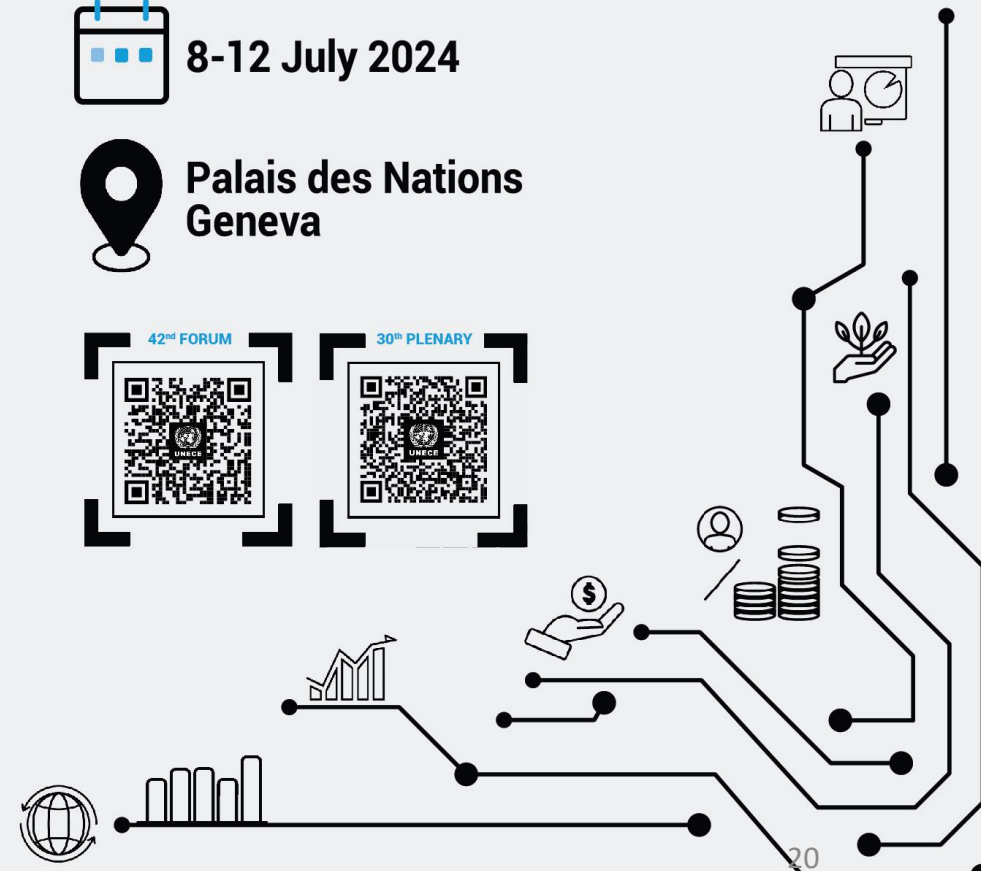


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Gastroeconomy + ESG XaaS Model + IISA Model:

-As a Solution for the SDGs of
International Tourism Industry

Mr. Tain-Tsair Hsu

Chairman

Commerce Development Research Institute (CDRI)

10 July 2024



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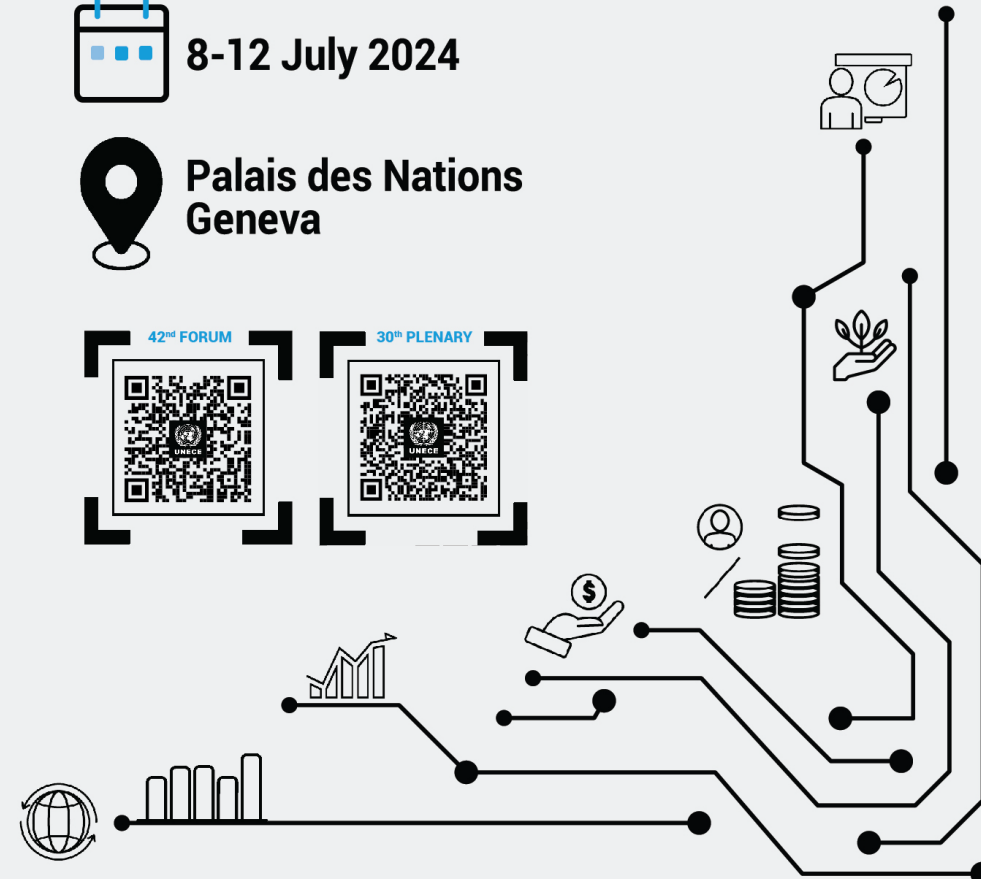


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Gastroeconomy

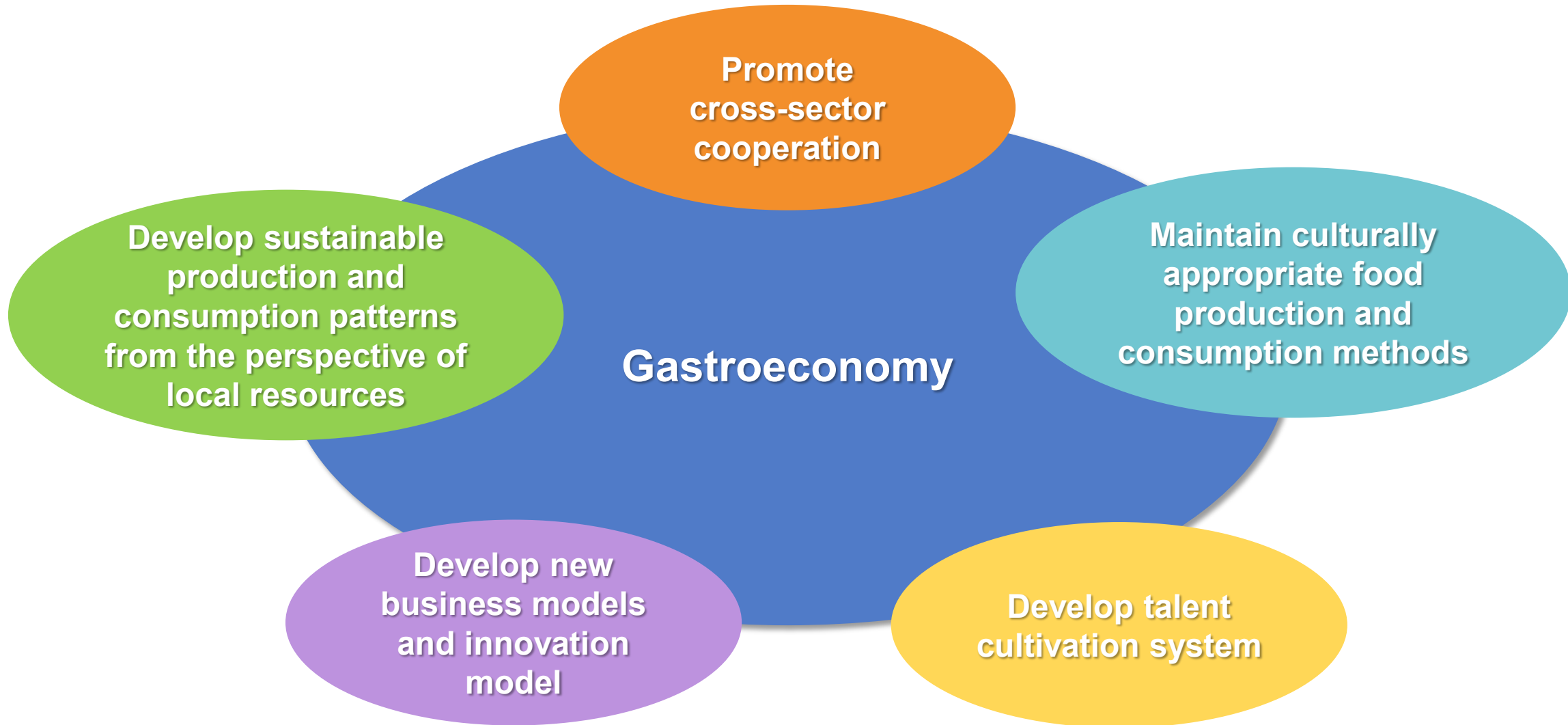
- Developing economy with gastronomy.
- UNCTAD highlighted the growing importance of domestic gastronomy for exports and tourism and the gastronomic tradition as an invaluable resource to encourage entrepreneurship and innovation.
- *"Food is part of the creative economy and a means to support the sustainable development goals and is supported by the United Nations Conference on Trade and Development", said Marisa Henderson.*

Gastroeconomy and Life Transformation (1/2)

- Gastronomy is a cultural expression that shows the diversity of nature and humanity; it is an important part of the knowledge economy.
- Gastroeconomy emphasizes that tourism, catering and accommodation must be in sustainable symbiosis with humanity and nature.
- Tourists not only taste local delicacies but also develop concepts of sustainable development, such as combining various cultural practices with local culture and history, landscape, values, and cultural heritage.

Green
Consumption

Gastroeconomy and Life Transformation (2/2)

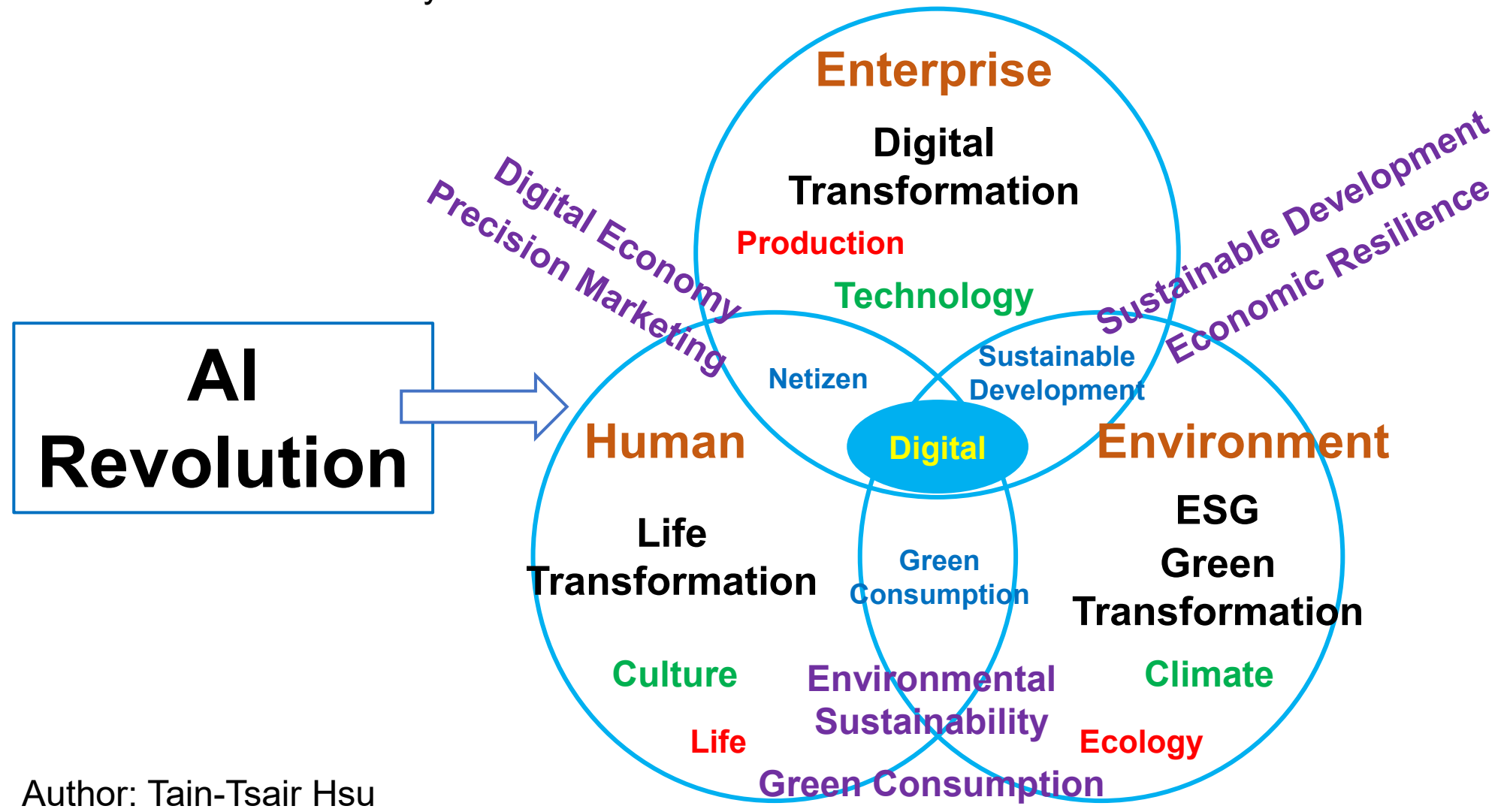


XaaS is an Important Business Model for Green Transformation

1. **Integrated and sustainable management** of natural resources is critical to meeting universal needs.
2. Resources must be managed as a **public good** to achieve key SDGs.
3. UNFC and UNRMS provide the right information and tools to **manage natural resources**.
4. UNFC and UNRMS approaches to enabling the resource as a service paradigm through blockchain technologies.
5. Sustainable management of critical raw materials required for the low-carbon energy transition.
6. Resources as a Service: A catalyst to accelerate the energy transition, safeguarding climate action targets within the circular economy.

Three major transformation strategies

- Three major transformation strategies are needed for the sustainable development of the innovation value ecosystem



Author: Tain-Tsair Hsu

Features of the IISA Model for Neo International Cooperativism - Replace competition with cooperation

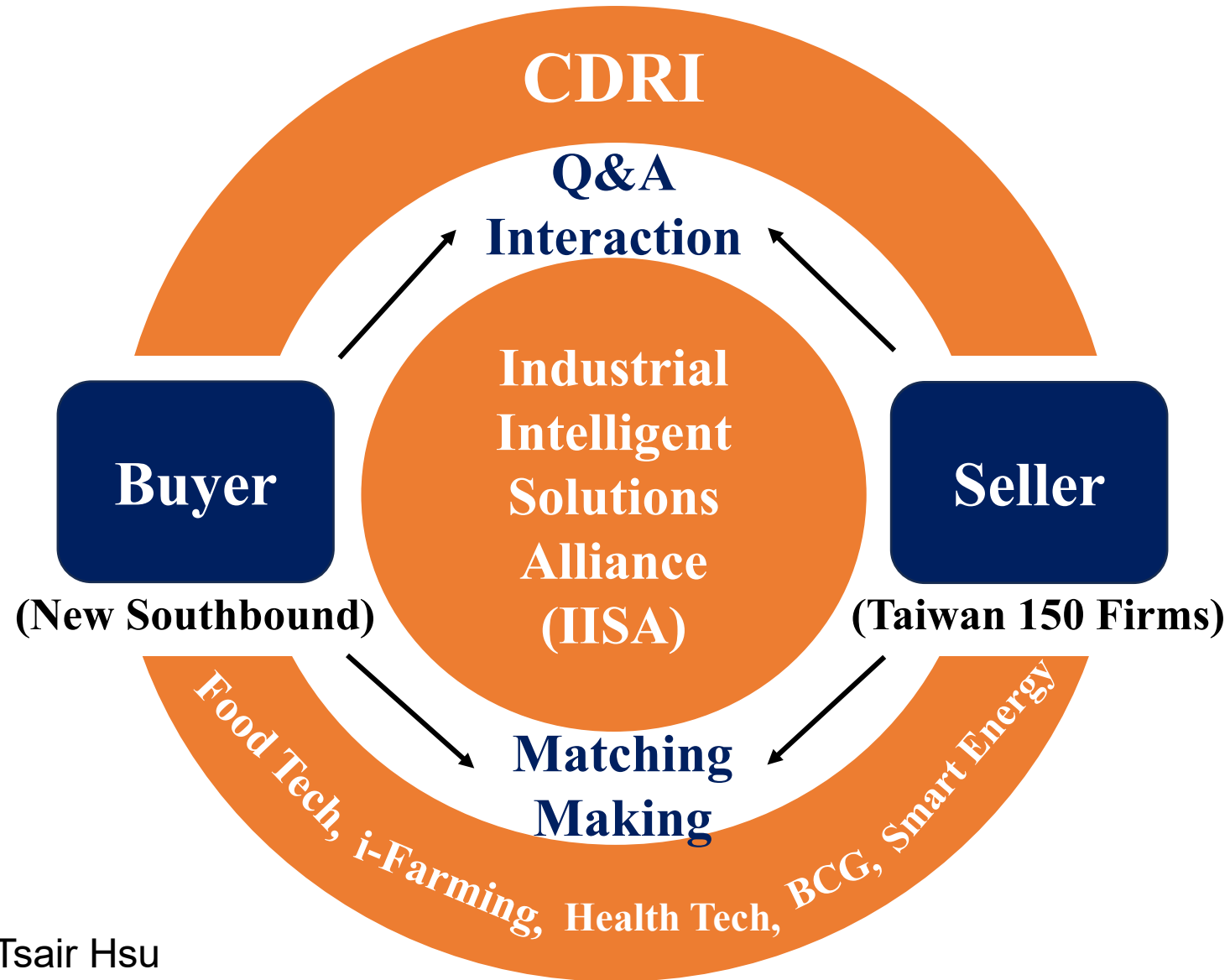
1. In the new era of the digital economy, the traditional business philosophy of only focusing on the rights and interest of shareholders has been replaced by the rights and interests of stakeholders that emphasize corporate social responsibility. In other words, competition and possible conflicts between enterprises are replaced by mutual cooperation and possible harmony.
2. The digital economy combines the advantages of zero latency and zero distance, no time difference, decentralization, diversification, and extensive connectivity through edge computing.
3. The Neo International Cooperativism encompasses both globalization and localization in a global market of digital economy.
 - Globalization expands markets, disseminates new technologies, facilitates complementary interactions, and accelerates the development of regional cooperation.
 - On the other hand, localization makes full use of local resources, leverages local cultural characteristics, promotes local industries, community participation, and social development, aiming to balance regional development and reduce disparities in development and wealth.

IISA Model of Digital Trade Innovation Value

- Industrial Intelligent Solutions Alliance (IISA) is a new business model for digital trade which has successfully developed and verified by CDRI.
- There are five major “New Southbound” R&D experiment of areas by CDRI:
 - Food Tech
 - Health Tech
 - Bio-Circular-Green Economy (BCG economic model in Thailand)
 - i-Farming
 - Smart Energy

The IISA model can also be used in conjunction with Intelligent Services for investment in the international tourism industry.

Industrial Intelligent Solutions Alliance (IISA) Model



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Thank you!

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Date: 10 | July | 2024



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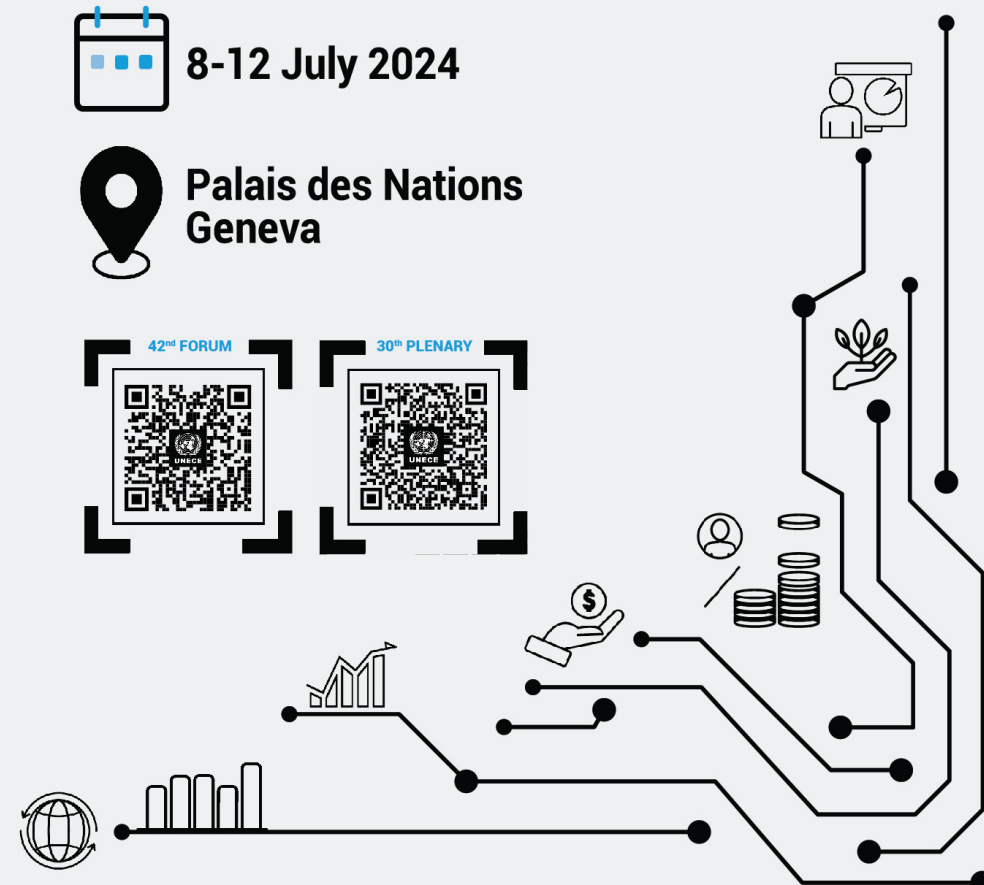


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Present situation of the API Transformation of EPs Technical Artefacts with Sustainability Claims

Mr. Sachin Mehta
Domain Coordinator, Travel and Tourism
Project Sublead Mr. Kazuyoshi Itagaki
Project Editor Dr. Mikio Tanaka



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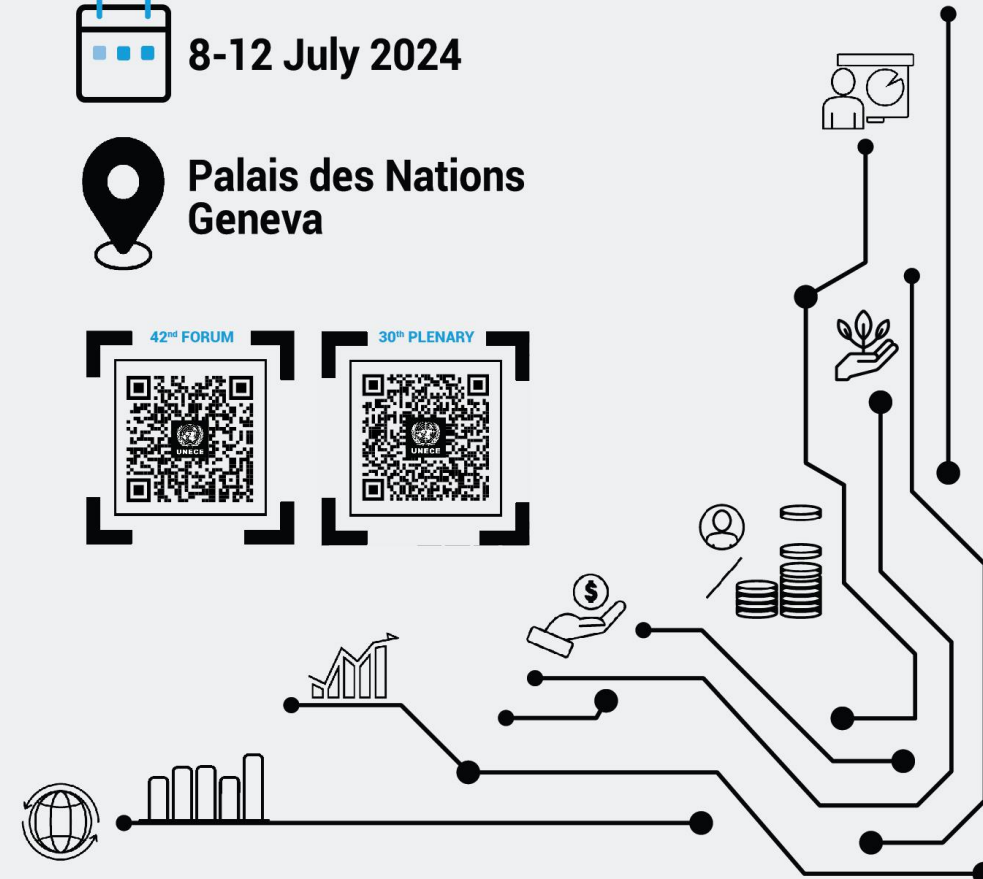


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Overview of EPs ver.1

1. Outcomes of EPs ver.1

- In EPs ver.1, EPs suppliers desire to have any good means to trade EPs globally and to welcome global visitors to their regions.
- It was said that in developing EPs technical artefacts, the results of SLH (Small scaled Lodging House) related projects should be reutilized as much as possible,
- Because they were developed based on the ebXML specifications,
- But EPs needs a lot new data entities to be communicated between new trading parties.
- The deliverables to be developed In EPs ver.1 are
 - a) The Business Requirements Specification (**BRS**) for the processes required by the travel and tourism industry (booking, modification, cancellation, information search)
 - b) The **new information items** to be registered in the Core Component Library (**CCL**: a UN/CEFACT common dictionary)

Overview of EPs ver.1

2. Contents of BRS

- The **BRS** describes the history and objectives of its development, and as a development item it indicates the information exchange process, the basic content of the information items necessary for that, and the codes (messages) to be used within this information.

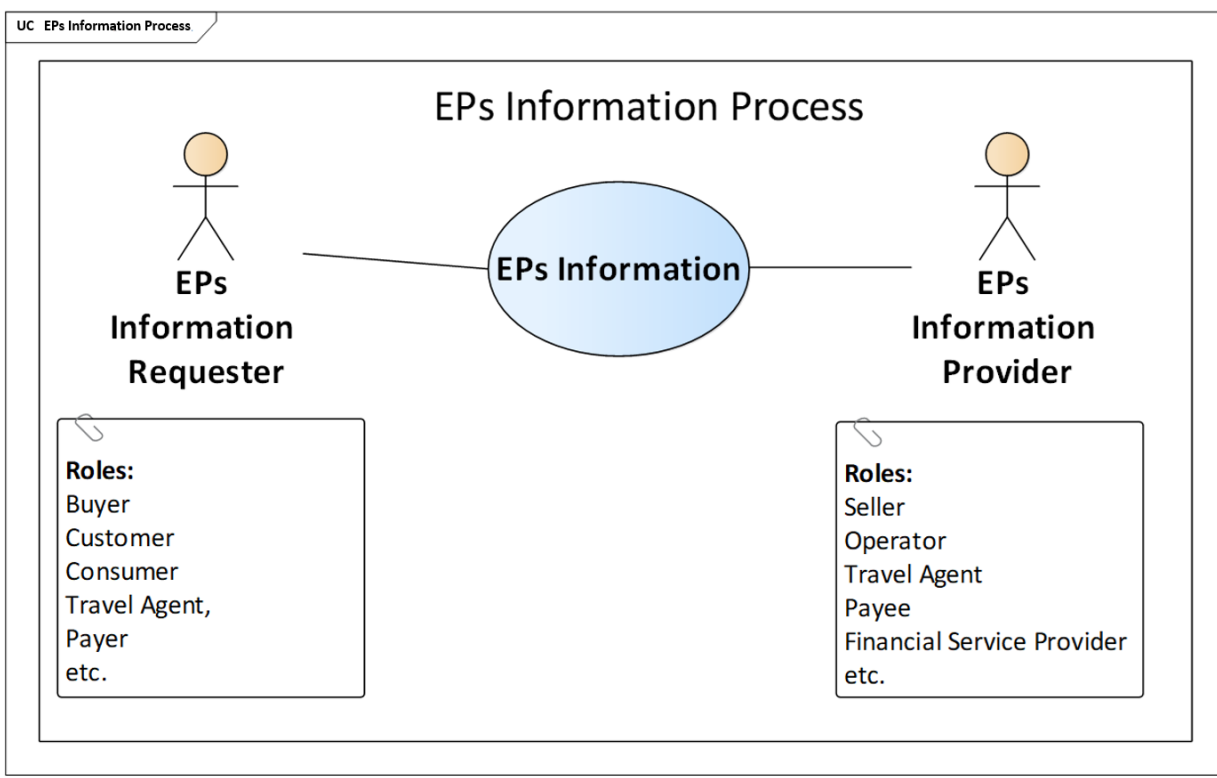


Figure 1 Use case diagram

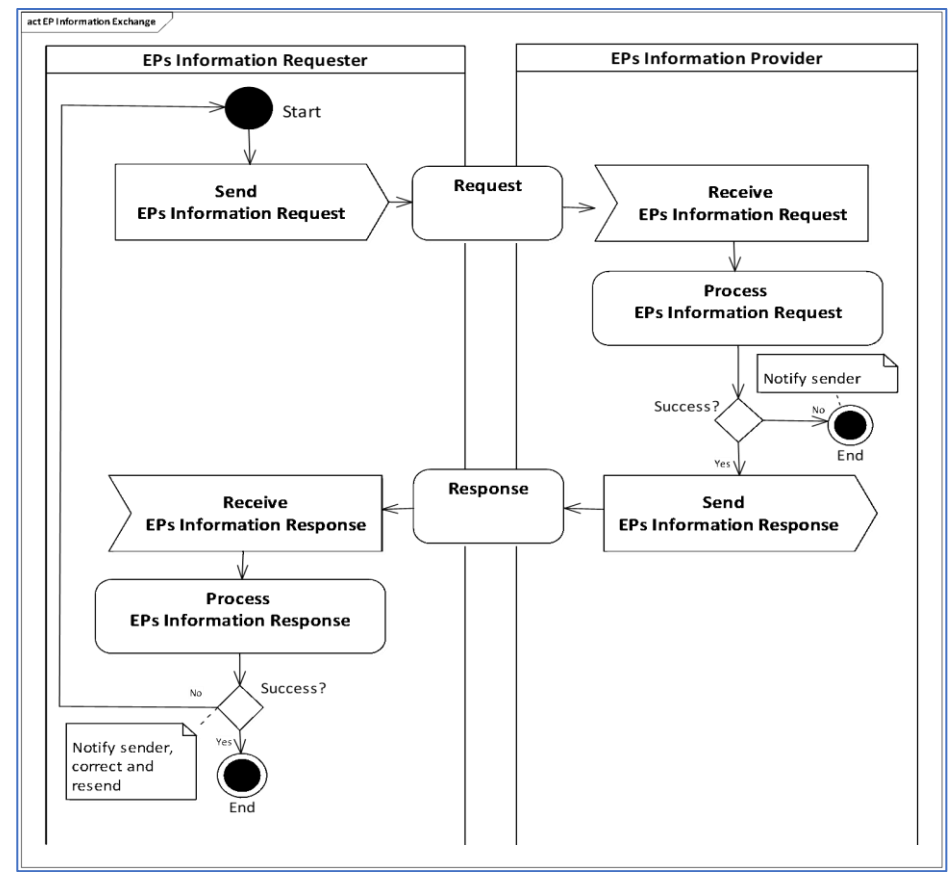


Figure 2 Activity diagram

Overview of EPs ver.1

3. Contents of BRS

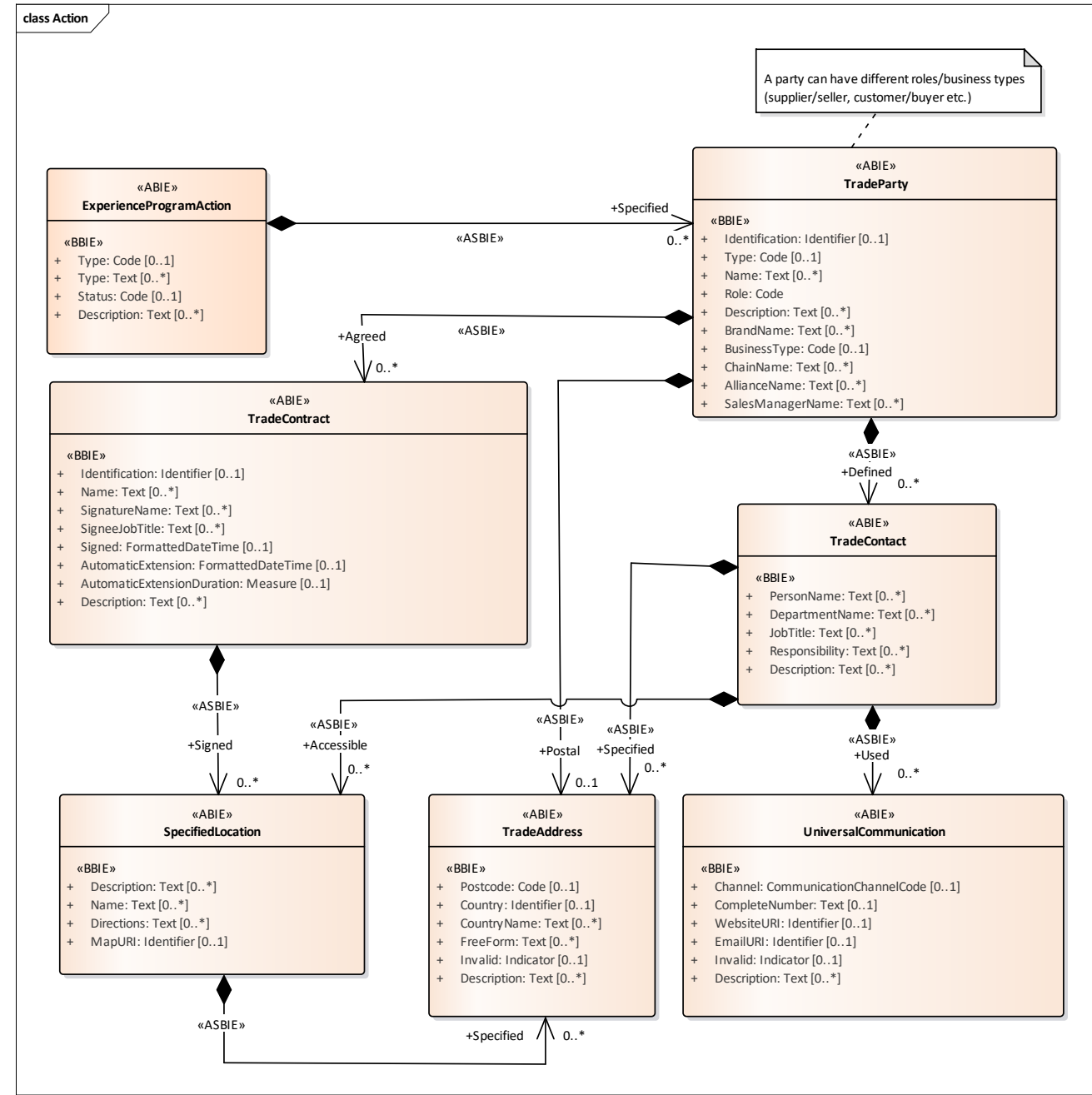
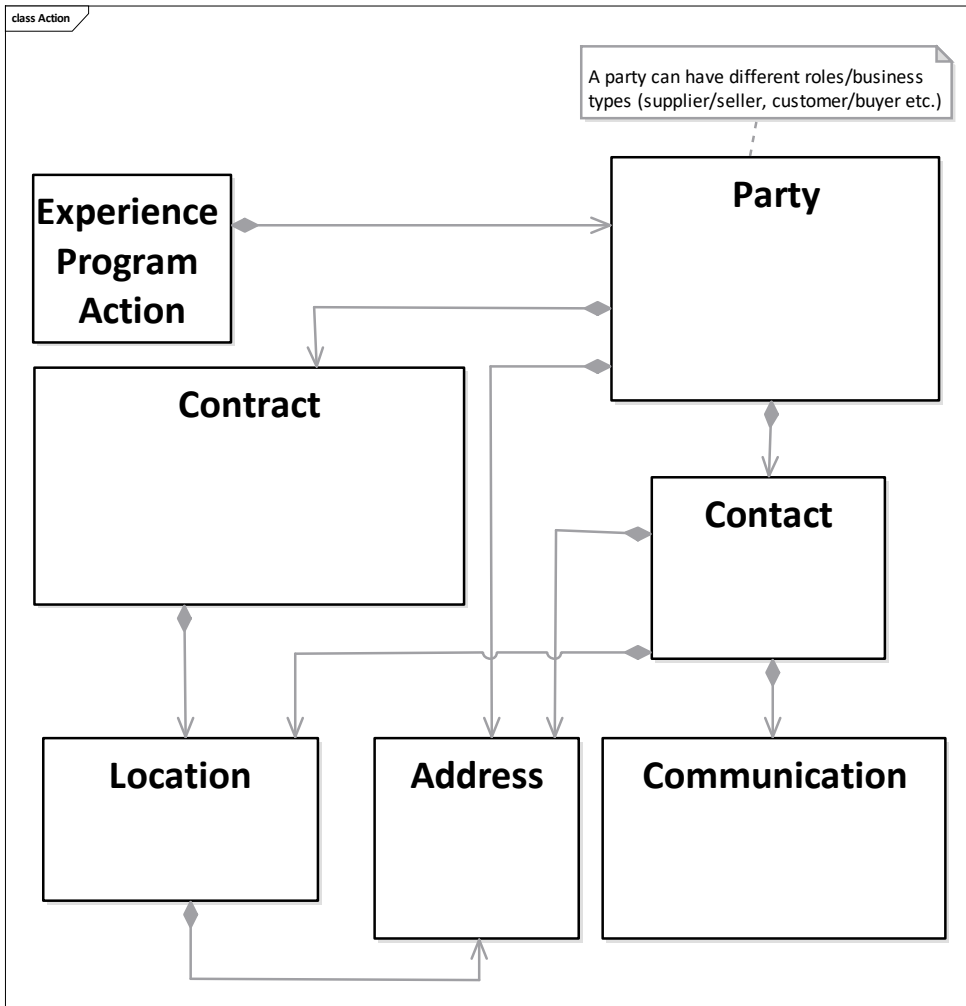


Figure 3 Action part canonical class diagram

Figure 4 Action part class diagram

Overview of EPs ver.1

4. Contents of information items

- After the **BRS** was finalized, these information items are registered in the **CCL**.

A	B	C	D	E	Sho
ABIE/ BBIE/ ASBIE/ACC/B CC/ASCC/DT/ CC/SC	Dictionary Entry Name (auto generated)	Definition Mandatory	Occurrence Min	Occurrence Max	
1					
2	Keep the rows together Adjust selected rows with Ctrl-a	Enable macro's with Ctrl-e Disable macro's with Ctrl-d	Mandatory for BBIE, ASBIE, BCC, ASCC		
54	BBIE Experience Program Action Status Code	The code specifying the status of this experience program action.	0	1	Status Code
55	BBIE Experience Program Action Description Text	A textual description of this experience program action.	0	unbounded	Description
56	ASBIE Experience Program Action Specified Trade Party	A party specified for this experience program action.	0	unbounded	Specified Party
57	ABIE Experience Event Details	An involvement in an experience program in which some thing happens, such as a nature watching, woodware manufacturing, meditation, holiday trip, dinner, theme park visit, could be experienced.			Experience Event
58	BBIE Experience Event Date Sequence Numeric	The date sequence number for this experience event.	0	1	Date Sequence Nu
59	BBIE Experience Event Name Text	A name, expressed as text, for this experience event.	0	unbounded	Name
60	BBIE Experience Event Basic Objective Text	A basic objective, expressed as text, for this experience event.	0	unbounded	Basic Objective Te
61	BBIE Experience Event Identification Identifier	The identifier of this experience event.	0	1	ID
62	BBIE Experience Event Choice Allowed Indicator	The indication of whether or not a choice is allowed for this experience event.	0	1	Choice Allowed Inc
63	BBIE Experience Event Reservation Required Indicator	The indication of whether or not a reservation is required for this experience event.	0	1	Reservation Requir
64	BBIE Experience Event Location Text	A location, expressed as text, for this experience event.	0	unbounded	Location Text
65	BBIE Experience Event Meeting Date Time	The meeting date, time, date time, or other date time value for this experience event.	0	1	Meeting Date Time
66	BBIE Experience Event Break Up Date Time	The break up date, time, date time, or other date time value for this experience event.	0	1	Break Up Date Tim
67	BBIE Experience Event Instruction Text	An instruction, expressed as text, for this experience event.	0	unbounded	Instruction Text
68	BBIE Experience Event Reservation Guarantee Text	A reservation guarantee, expressed as text, for this experience event.	0	unbounded	Reservation Guar
69	BBIE Experience Event Indemnity Clause Text	An indemnity clause, expressed as text, for this experience event.	0	unbounded	Indemnity Clause T
70	BBIE Experience Event Description Text	A textual description of this experience event.	0	unbounded	Description
71	ASBIE Experience Event Provided Specified Requirement	A specified requirement provided for this experience event.	0	unbounded	Provided Requirem
72	ASBIE Experience Event Required Specified Usage Condition	The specified usage condition required for this experience event.	0	1	Required Usage Co
73	ASBIE Experience Event Specified Trade Party	A party specified for this experience event.	0	unbounded	Specified Party
74	ASBIE Experience Event Distinctive Specified Feature	A distinctive feature specified for this experience event.	0	unbounded	Distinctive Feature
75	ASBIE Experience Event Provided Specified Certificate	A specified certificate provided for this experience event.	0	unbounded	Provided Certificat
76	ASBIE Experience Event Calculated Trade Price	A calculated price for this experience event.	0	unbounded	Calculated Price
77	ASBIE Experience Event Operational Specified Period	An operational period specified for this experience event.	0	unbounded	Operational Period
78	ASBIE Experience Event Applicable Specified Note	A specified note applicable for this experience event.	0	unbounded	Applicable Note

EPs ver.2 succeeded to EPs ver.1

1. On EPs ver.2

- The Project Proposal named as '**API Transformation of EPs Technical Artefacts with Sustainability Claims**' was approved by Bureau in May last year.
- This is the Version 2 of the project, 'Experience Programs Technical Artefacts Project' i.e. EPs ver.1 (EPs TA).
- This has been completed.
- The main purpose of the project is to make the use of EPs TA easier.
- One of the major scopes is the **transformation of EPs TA into API formats** based on the UN/CEFACT API Specifications.
- The other one is **to develop the BIEs of Sustainability Claims** by using the output of 'Business Standards for Sustainable Tourism Project'.

API Transformation of EPs Technical Artefacts

1. Transformation of CCTS into JSON

- The rules of R12|1,R13|1,R14|1,R15|1 are applied.
- The rule of the abbreviations and acronyms is presented in Table-4 of 3.3 General naming rules moving from CCTS to JSON in JSON NDR TS

CCTS Appearance	JSON Representation
"Uniform Resource Identifier" or "URI_ Identification Identifier"	"Uri" with "type": "string" "format": "uri" The rule for abbreviating "Identifier" is not applied in this case. It SHALL NOT be abbreviated as "UriId".
"Identification Scheme"	"Scheme"
"Details"	"Type"
"Identifier"	"Id"
"Indicator"	SHALL be omitted. "isOrHas" is added as a prefix.
"Identification Identifier"	"Id"
"Text"	SHALL be omitted
"Specified_ "	SHALL be omitted
"AAA " at the beginning "TT_ " "Transport_ " "Supply Chain_ " "CI_ "	SHALL be omitted, if the resulting name of the ABIE is unique, else it SHALL be kept
"Formatted_ "	SHALL be omitted
"Trade_ Party" at the end	SHALL be omitted

Table-4 of 3.3 General naming rules

Output of JSON Transformation from CCTS(RDM)

	CCTS(RDM)Definition	CCTS(RDM)	JSONConverted (This part is the outcome of EPs v2.)
	Based CCL D22A	Based CCL D22A-ReferenceBIE	Converted from CCTS (RDM) based on R14 1,R15 1,R16 1 &Table 4 of JSON Schema NDR
ABIE	A specified period of time.	Specified_Period. Details	periodType
BBIE	The code specifying the type of specified period.	Specified_Period. Type. Code	typeCode
BBIE	The date, time, date time or other date time value for the start of this specified period of time.	Specified_Period. Start. Date Time	startDateTime
BBIE	The date, time, date time or other date time value for the end of this specified period of time.	Specified_Period. End. Date Time	endDateTime
BBIE	A textual description of this specified period of time.	Specified_Period. Description. Text	description
BBIE	The unique identifier of this specified period.	Specified_Period. Identification. Identifier	Id
BBIE	The code specifying the purpose of this specified period.	Specified_Period. Purpose. Code	purposeCode
BBIE	A name, expressed as text, of this specified period.	Specified_Period. Name. Text	name
BBIE	The code specifying the start day of the week for this specified period.	Specified_Period. Start_ Day Of Week. Code	startDayOfWeekCode
BBIE	The code specifying the end day of the week for this specified period.	Specified_Period. End_ Day Of Week. Code	endDayOfWeekCode
BBIE	The number of days for this specified period.	Specified_Period. Number Of Day. Numeric	numberOfDayNumeric
BBIE	The number of nights for this specified period.	Specified_Period. Number Of Night. Numeric	numberOfNightNumeric
BBIE	The duration, expressed as text, for this specified period.	Specified_Period. Duration. Text	duration
BBIE	The measure of the minimum length of time for this specified time period such as hours, days, weeks, months, years.	Specified_Period. Minimum_ Duration. Measure	minimumDurationMeasure
BBIE	The measure of the maximum length of time for this specified time period such as hours, days, weeks, months, years.	Specified_Period. Maximum_ Duration. Measure	maximumDurationMeasure

Convert from CCTS(RDM) to JSON

CCTS(RDM) is Converted to JSON in compliance with JSON NDR

- This JSONConverted is just the outcome of EPs v2. and the most significant part in it.
- We are sure that this will lead to a success of API conversion.

	CCTS(RDM)	JSONConverted (This part is the outcome of EPs v2.)
	Based CCL D22A-ReferenceBIE	Converted from CCTS (RDM) based on R14 1,R15 1,R16 1 & Table 4 of JSON Schema NDR
ABIE	Specified_Period.Details	periodType
BBIE	Specified_Period.Type.Code	typeCode
BBIE	Specified_Period.Start.Date Time	startDateTime
BBIE	Specified_Period.End.Date Time	endDateTime
BBIE	Specified_Period.Description.Text	description
BBIE	Specified_Period.Identification.Identifier	Id
BBIE	Specified_Period.Purpose.Code	purposeCode
BBIE	Specified_Period.Name.Text	name
BBIE	Specified_Period.Start_Day Of Week.Code	startDayOfWeekCode

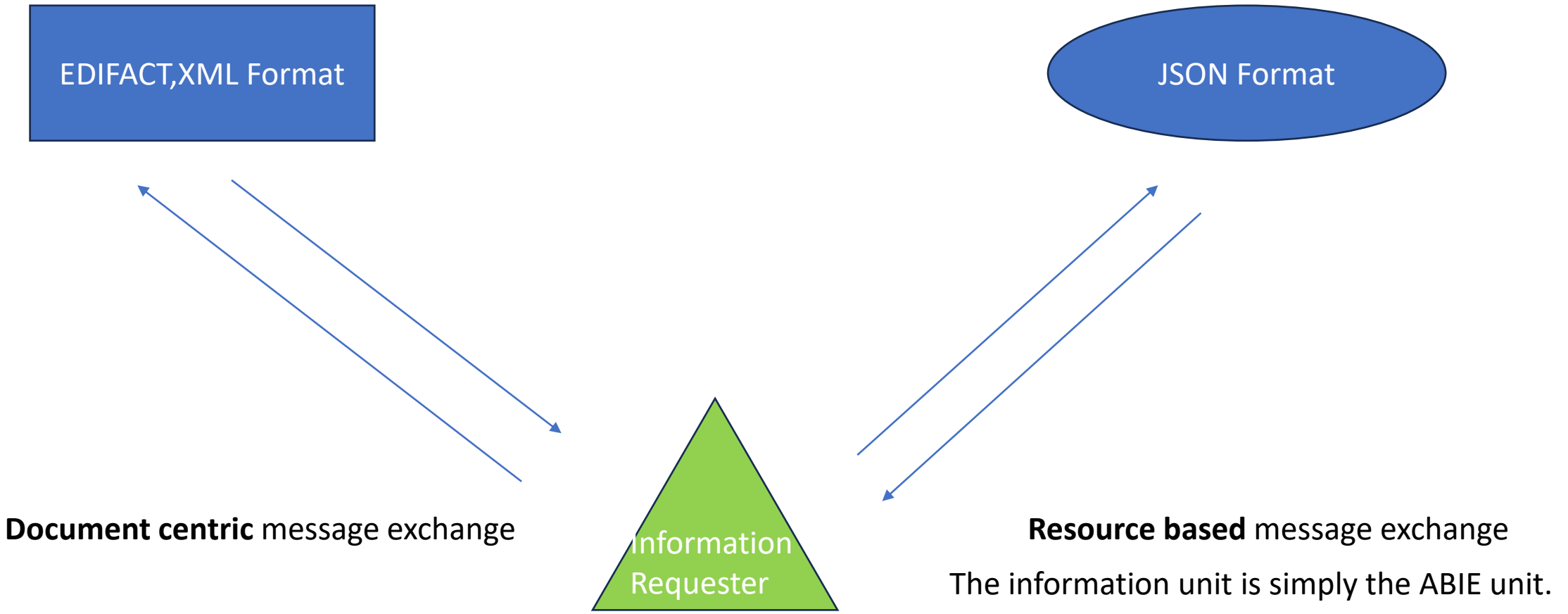
API Transformation of EPs Technical Artefacts

2. From Document centric to Resource based

- The CCTS defines naming and design rules for a hierarchical data model that supports a **document centric** modelling approach as well as a resource based modelling approach.
- In order to support the **document centric** modelling approach and to be backwards compatible it is designed in a hierarchy.
- REST APIs on the other hand are **resource based** only.
- This means that when moving from CCTS to REST APIs using JSON Schema both options are to be considered.
- A form of **serialization** is chosen within the JSON Schema NDR that allows both options for each decision point: The retention of the document-centric hierarchy or the separation according to resources.
- All ASBIE connections are affected by this.
- (The above from 3.1.1 JSON serialization in a RESTful context in JSON NDR TS)
- **Resource-based** data management means that resources must have unique identifiers. Therefore, only those ABIEs can be converted to resources that have a unique identifier.
- (The above from 3.7.2 ASBIE representation in JSON Schema supporting document based and resource-based information)

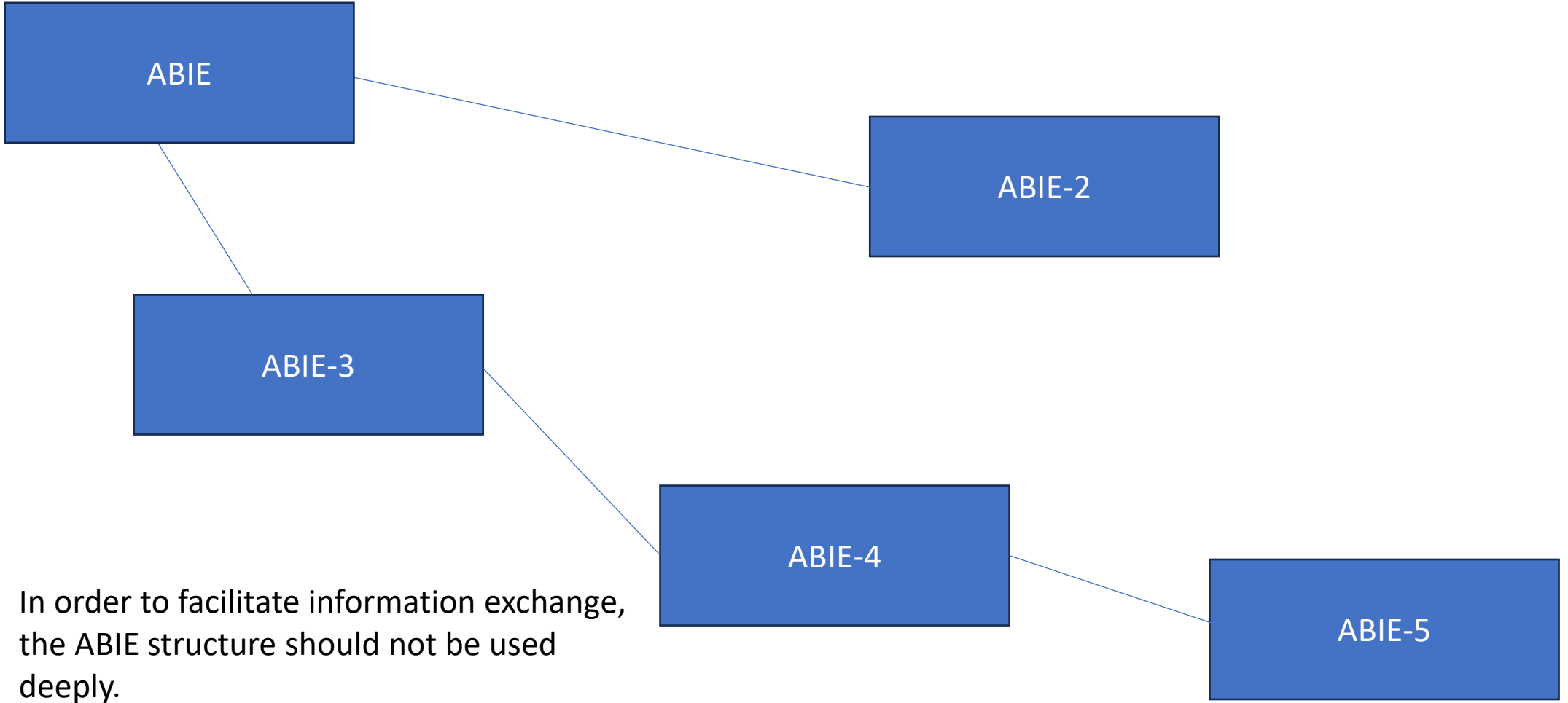
API Transformation of EPs Technical Artefacts

1. From Document centric to Resource based



API Transformation of EPs Technical Artefacts

1. Concept of Serialization

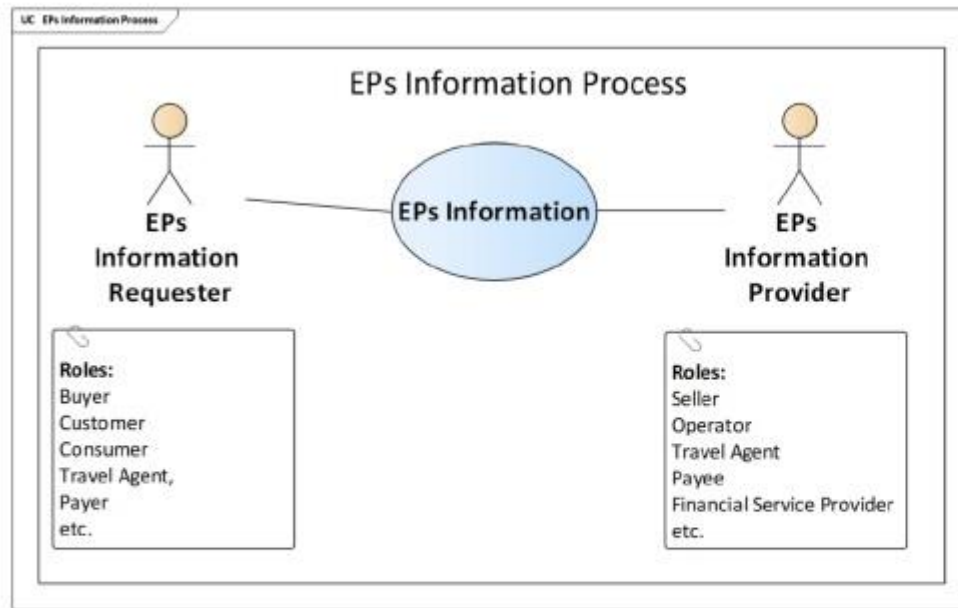


In order to facilitate information exchange, the ABIE structure should not be used deeply.

API Transformation of EPs Technical Artefacts

1. The future 1

We hope to implement API for EPs informations.



Use case diagram - EPs Information Exchange

BRS

- Defines the processes and requirements



JSON Schema

- Contextualise RDM



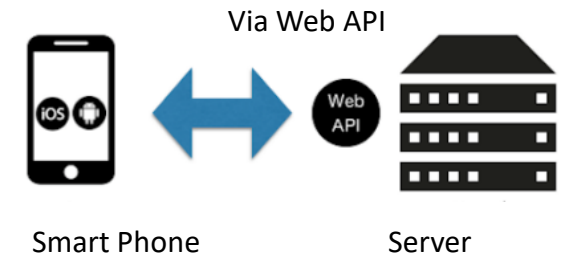
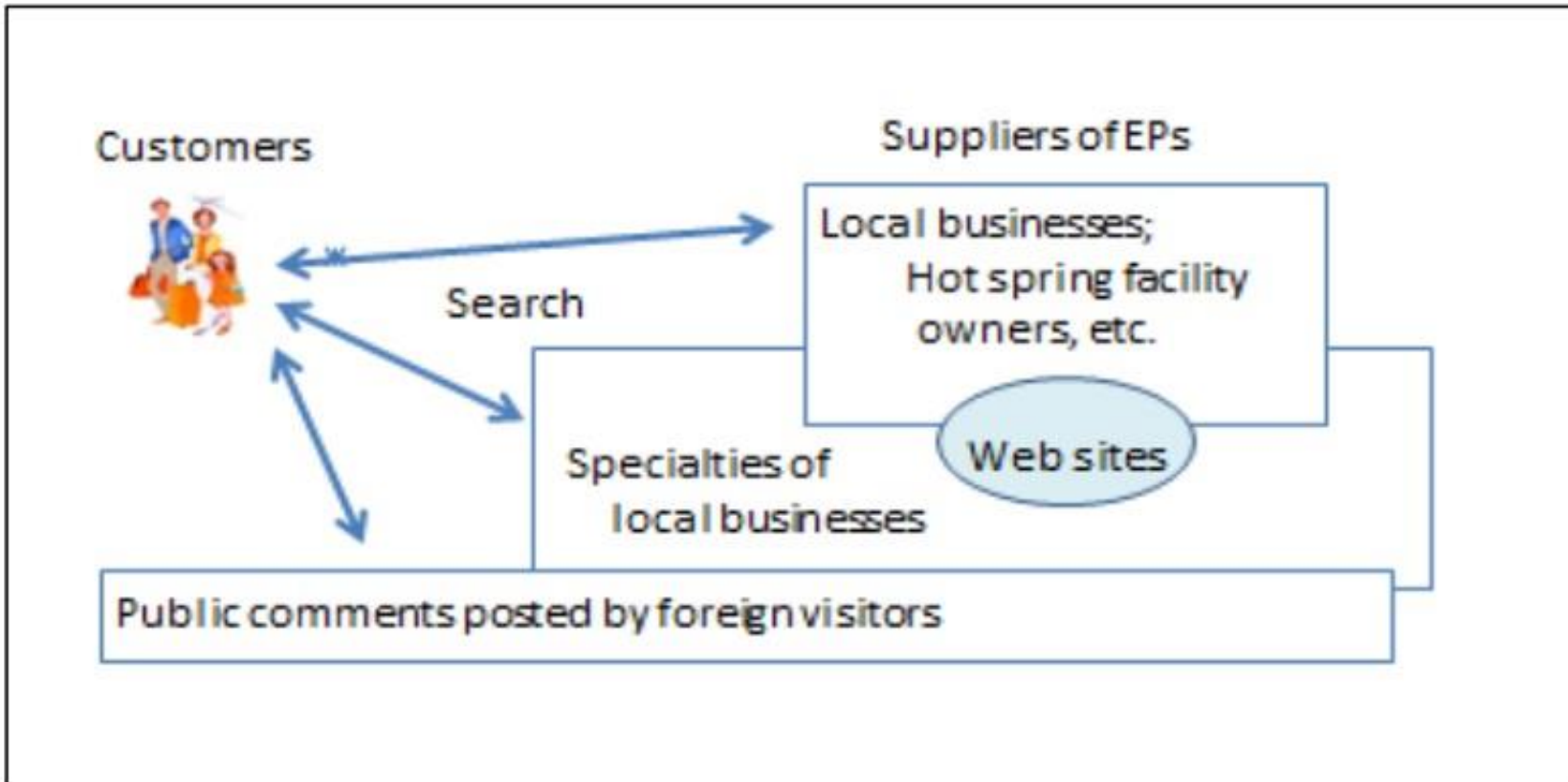
OpenAPI

- Use JSON-Schema
- Create services for process implementation

EPs Expand by API Transformation

1. The future 2

API Transformation is expected to improve the expand of EPs



- information search
- booking
- modification
- cancellation

Developing the BIEs of Sustainability Claims

1. Use case of Self-Assessed Sustainability Claims of Suppliers and Reviews of Travellers

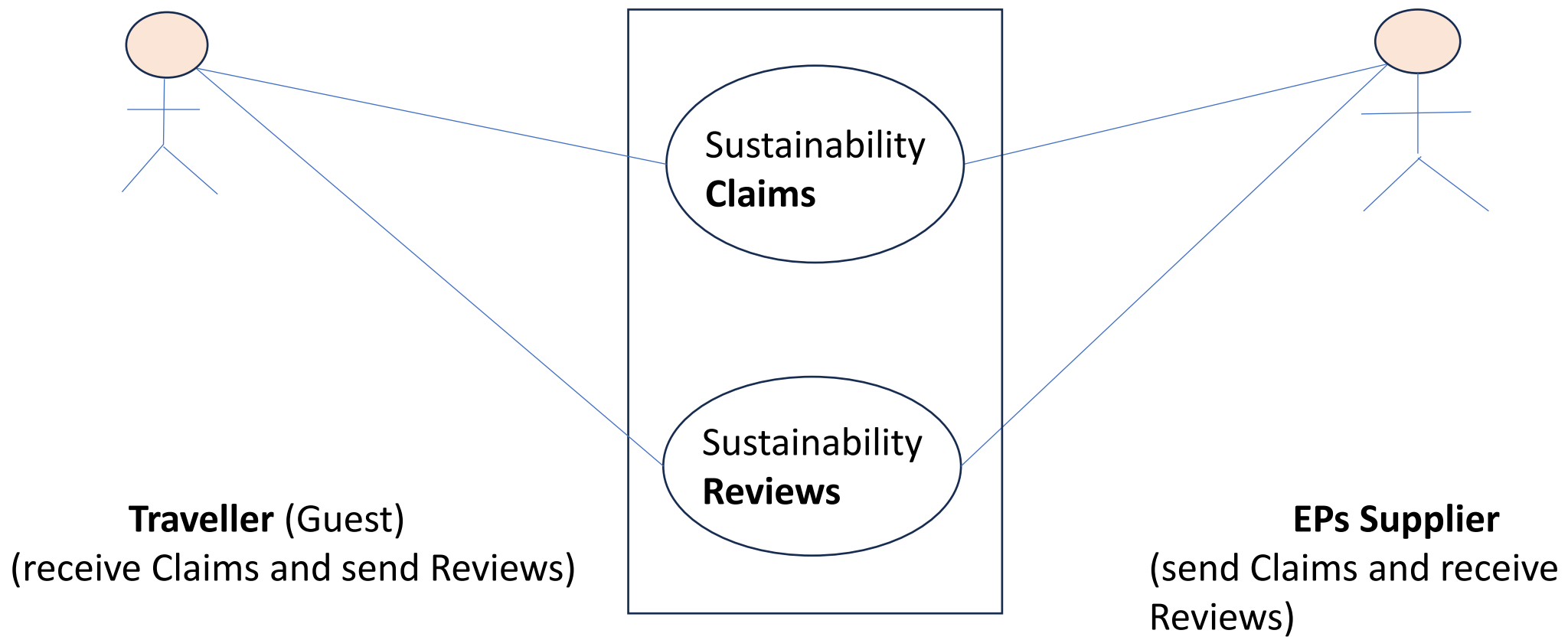


Figure 5 Use case diagram Sustainability Claims and Reviews

Developing the BIEs of Sustainability Assertion

- Sustainability_Assertion. Details are already in CCL. The details are applied to Sustainability Claims.

Add/CH	Entity	Reference BIE	Definition	Occurrence
	ABIE	Sustainability_Assertion. Details	A statement that user needs of the present are met without compromising the needs of future generations.	
Add	BBIE	Sustainability_Assertion. Maturity_Level. Code	A code specifying a level of this sustainability assertion	0..*
	BBIE	Sustainability_Assertion. Issuing Party_Name. Text	A textual expression of the party name issuing this sustainability assertion	0..*
Add	BBIE	Sustainability_Assertion. Issuing Party_Identification. Identifier	An identifier of the party issuing this sustainability assertion	0..*
	BBIE	Sustainability_Assertion. Description. Text	A textual description of this sustainability assertion.	0..*
	ASBIE	Trade_Party. Specified. Sustainability_Assertion	The sustainability assertion specified for this trade party.	

Business Information Entity of Reviews of Customers

- Specified_ Note. Details could be reused to this case in order to express review related comments.

ADD/CHG	Entity	Dictionary Entry Name	Definition	Occur.
CHG	ABIE	Specified_ Note. Details	A specified textual or coded description, such as a remark, additional information or review.	
CHG	BBIE	Specified_ Note. Review_ Subject. Code	The code specifying the review subject of this specified note.	0..1
CHG	BBIE	Specified_ Note. Review_ Content. Text	Review content, expressed as text, of this specified note.	0..*
CHG	BBIE	Specified_ Note. Guest_ Name. Text	A guest name, expressed as text, of this specified note.	0..!
	BBIE	Specified_ Note. Creation. Date Time	The date, time, date time, or other date time value for the creation of this specified note.	0..1

Code Creation

- The following codes could be added to the EPs code list.

Code Name	Code Value
Sustainability_ Assertion. Maturity_ Level. Code	1 - Initial
Sustainability_ Assertion. Maturity_ Level. Code	2 - Managed
Sustainability_ Assertion. Maturity_ Level. Code	3 - Defined
Sustainability_ Assertion. Maturity_ Level. Code	4 - Quantitably Managed
Sustainability_ Assertion. Maturity_ Level. Code	5 - Optimizing
Specified_Note. Subject. Code	10 - Response agreeable
Specified_Note. Subject. Code	11 - Response not agreeable
Specified_Note. Subject. Code	12 - Response negative



Thank you!

Mr. Sachin Mehta, Mr. Kazuyoshi Itagaki, Dr. Mikio Tanaka
Date: 8-12 July 2024



Sustainable and Digital Trade Facilitation Week



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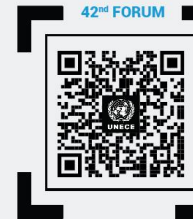


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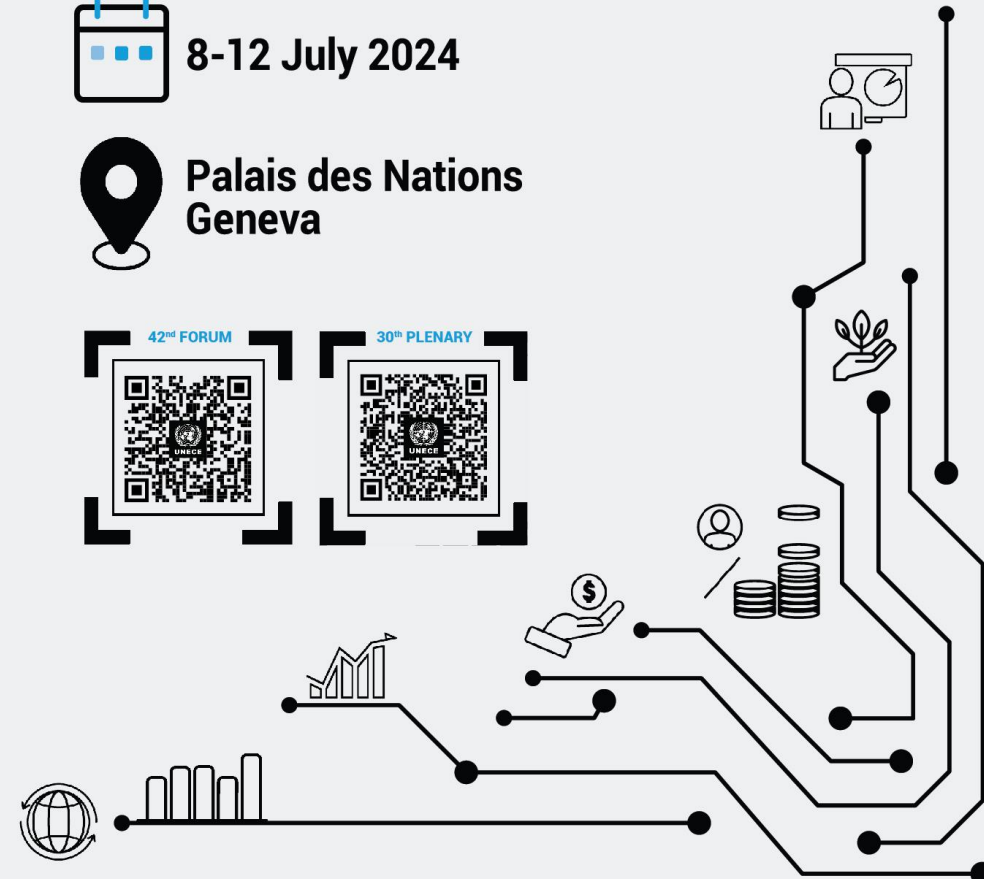
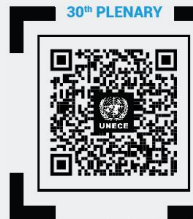


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Trend of World Travel and Tourism and Use of IT Technology

Sachin Mehta

Domain Coordinator, Travel and Tourism



Sustainable and Digital Trade Facilitation Week



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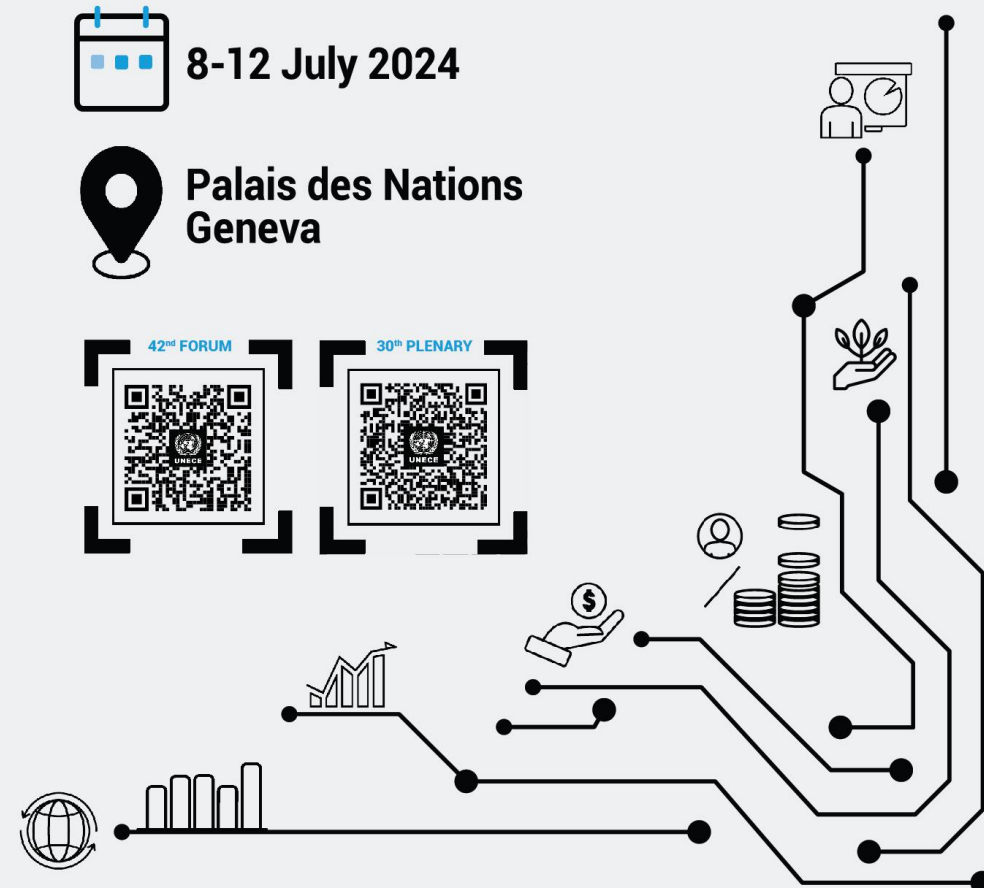


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Emerging Trends in World Travel 2024

1. Eco Diving

- **Marine Conservation Efforts:** Eco diving combines the thrill of scuba diving with environmental conservation. Divers participate in activities like coral reef restoration, underwater cleanups, and marine species monitoring.
- **Sustainable Dive Practices:** Dive operators are increasingly adopting sustainable practices such as no-anchor policies, eco-friendly dive equipment, and educating divers on minimizing their environmental impact.

2. Home Swapping

- **Cost-Effective Travel:** Home swapping allows travelers to exchange homes with someone in another location, significantly reducing accommodation costs. This trend is gaining popularity as it offers an affordable way to experience different cultures and communities.
- **Authentic Local Experience:** Staying in someone's home provides a more authentic and immersive experience, allowing travelers to live like locals and explore neighborhoods that might be off the beaten tourist path.

Emerging Trends in World Travel 2024

3. Sports Tourism

- **Major Sports Events:** 2024 is set to be a big year for sports tourism with major events like the ICC T20 World Cup and the Summer Olympics in Paris. These events attract millions of international visitors, boosting local economies and promoting cultural exchange.
- **Sports-Centric Travel Packages:** Travel companies are offering specialized packages that include tickets to events, accommodation, and experiences related to the sport, making it easier for fans to attend their favorite sporting events.

4. Coolcationing

- **Traveling for Comfort:** Coolcationing focuses on destinations with cooler climates, especially as travelers seek relief from increasingly hotter summers. Popular coolcation destinations include Northern Europe, Canada, and mountainous regions.
- **Seasonal Activities:** These trips often include activities like skiing, hiking, and exploring ice caves, catering to travelers looking for both adventure and cooler weather.

Emerging Trends in World Travel 2024

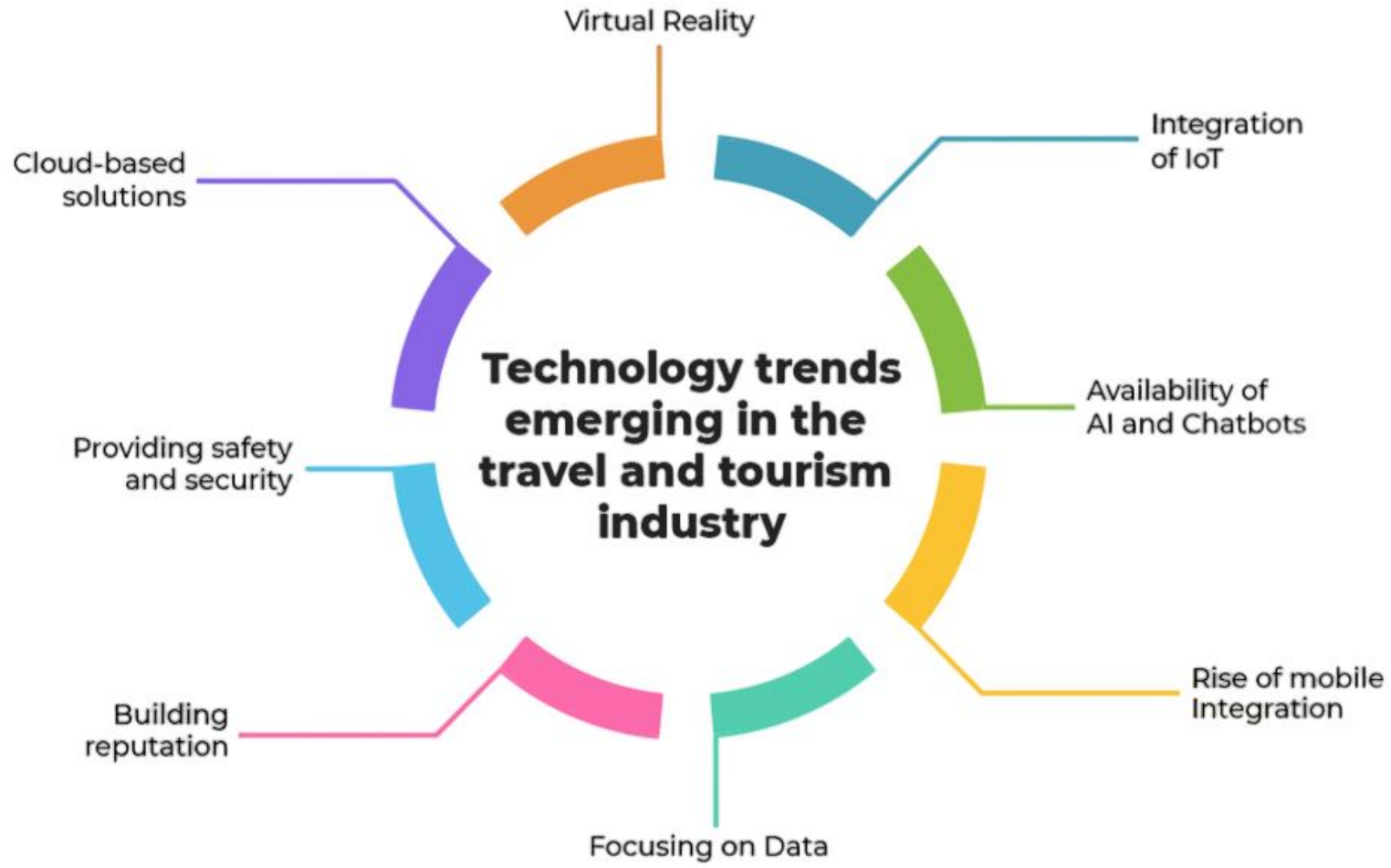
5. Gig Tripping

- **Work and Travel Balance:** Gig tripping allows freelancers and remote workers to travel while maintaining their work schedules. Destinations with strong Wi-Fi, co-working spaces, and digital nomad communities are particularly popular.
- **Flexible Travel Plans:** This trend emphasizes flexible travel itineraries that allow for spontaneous exploration alongside work commitments, making it ideal for those who want to blend productivity with leisure.

6. Rural & Cultural Tourism

- **Escape to the Countryside:** Rural tourism offers a retreat from the hustle and bustle of city life, with travelers seeking tranquility in picturesque villages, farmlands, and nature reserves. This trend supports local economies and promotes sustainable tourism.
- **Immersive Cultural Experiences:** Cultural tourism is on the rise as travelers seek to deeply engage with the history, traditions, and customs of their destinations. This includes visiting museums, historical sites, and attending local festivals.

Increasing Use of Information Technology



API Transformation of EPs Technical Artefacts with Sustainability Claims Project

- **Project Scope**

The project involves integrating APIs to transform Enterprise Products (EPs) technical artefacts with embedded sustainability claims. This includes identifying key artefacts, developing APIs for real-time data access, automating sustainability reporting, and ensuring compliance with international standards. The scope covers system compatibility, data mapping, synchronization, testing, and validation to ensure accurate and transparent sustainability claims.

- **Project Outcome**

The successful integration of APIs will enhance the accuracy and transparency of sustainability data, streamline reporting processes, and improve compliance with sustainability standards. This transformation will enable data-driven decision-making, build stakeholder trust, and support the achievement of global sustainability goals.

Travel Agency and DMC API RDM Project

- **Project Scope**

The Travel Agency and Destination Management Company (DMC) API and Reference Data Management (RDM) project aims to develop APIs for real-time data exchange and enhance RDM practices. This includes integrating customer profiles, booking details, and destination information, ensuring data accuracy, and implementing robust security measures. The scope covers API development, data integration, testing, validation, and compliance with industry standards.

- **Project Outcome**

The project will result in improved data accuracy, streamlined operations, and enhanced customer experience. It will reduce manual data handling, increase automation, and provide a scalable solution for future growth, ultimately boosting efficiency and service delivery.

Thank you!

Sachin Mehta
Travel & Tourism Domain Coordinator,
UN/CEFACT

Date: __ | __ | 2024



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