

UN/CEFACT 2020 Virtual Forum

API Projects Status Update

RDM2API

API Town Plan

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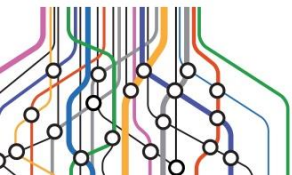
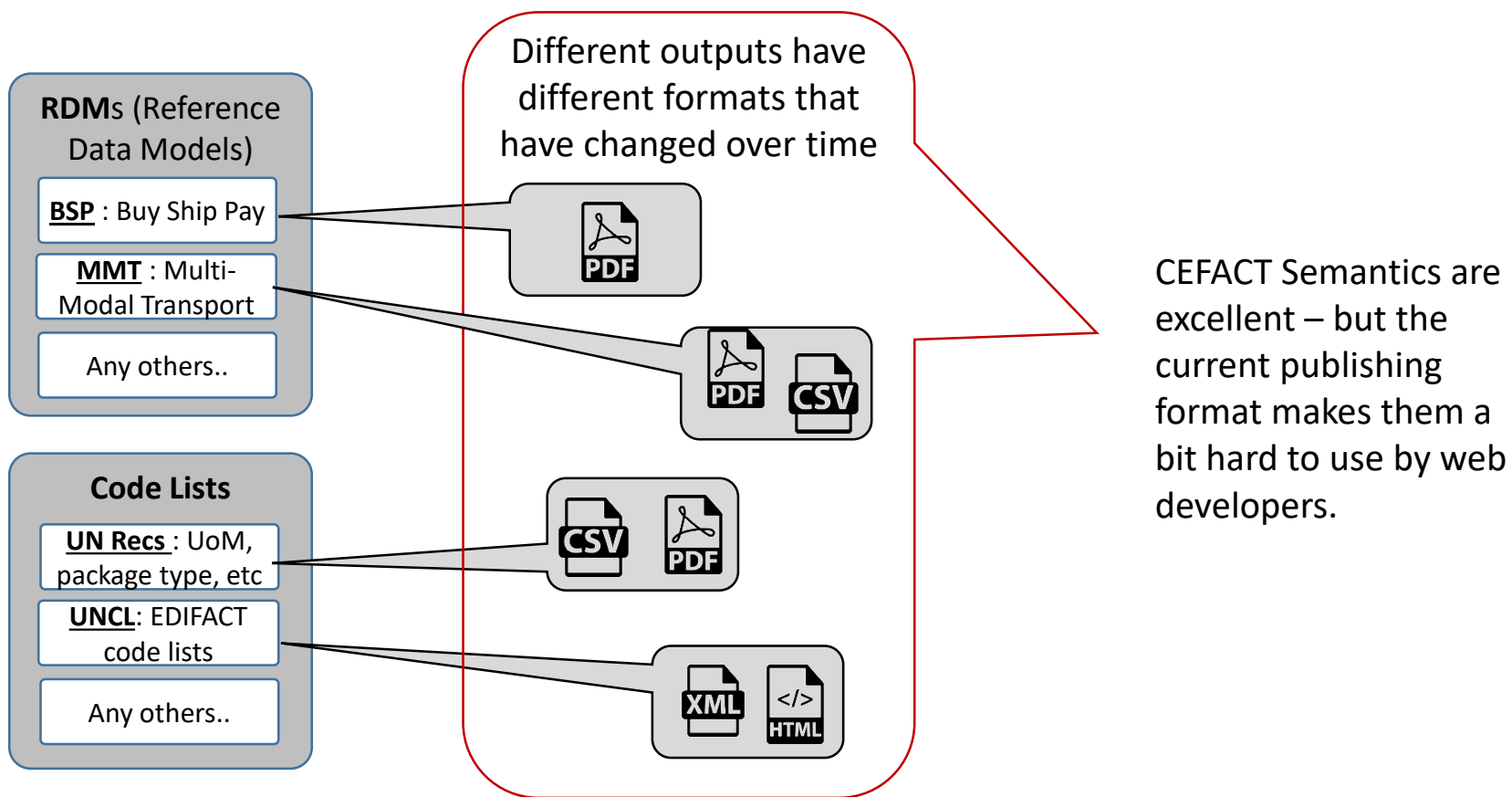


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RDM2API – Project Scope

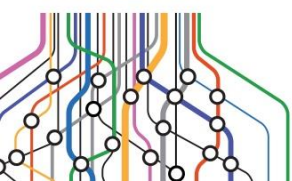
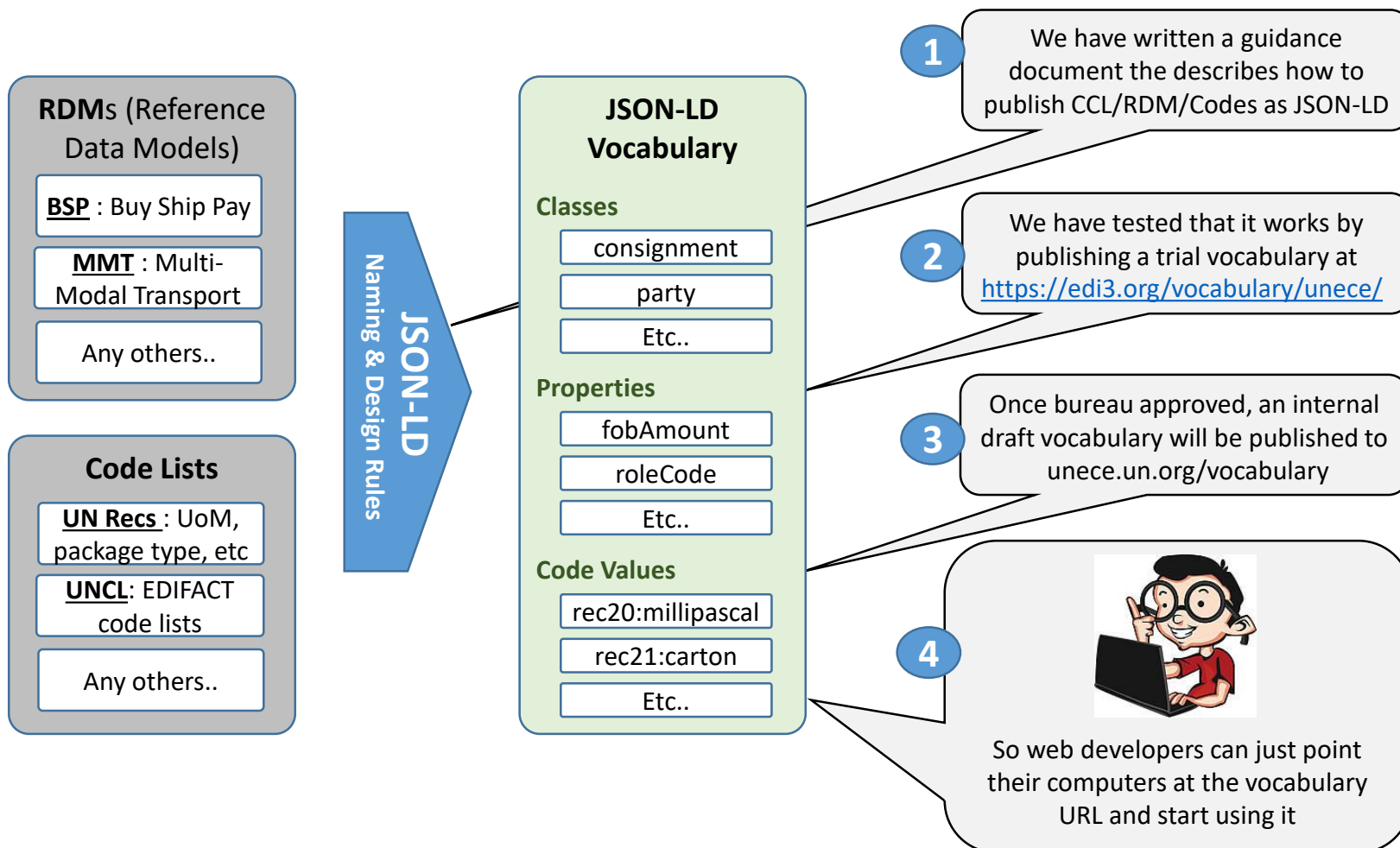
To make UN/CEFACT semantics accessible to modern web developers





RDM2API – JSON-LD Vocabulary Publishing

The first thing we need is a complete and consistent **machine-readable** publishing format.





RDM2API Why JSON-LD?

Because it is already used by millions of websites. For example: <https://schema.org/Recipe>

Recipe

Thing > CreativeWork > HowTo > Recipe

A recipe. For dietary restrictions covered by the recipe, a few common restrictions are enumerated via [suitableForDiet](#). The [keywords](#) property can also be used to add more detail.

[more...]

Property	Expected Type	Description
Properties from Recipe		
cookTime	Duration	The time it takes to actually cook the dish, in ISO 8601 duration format .
cookingMethod	Text	The method of cooking, such as Frying, Steaming, ...
nutrition	NutritionInformation	Nutrition information about the recipe or menu item.
recipeCategory	Text	The category of the recipe—for example, appetizer, main course, ...
recipeCuisine	Text	The cuisine of the recipe (for example, French or Italian).
recipeIngredient	Text	A single ingredient used in the recipe, e.g. sugar. Supersedes ingredients .
recipeInstructions	CreativeWork or ItemList or Text	A step in making the recipe, in the form of a single document, video, etc., or an ordered list with HowToSection items.
recipeYield	QuantitativeValue or Text	The quantity produced by the recipe (for example, people served, number of servings, etc.).
suitableForDiet	RestrictedDiet	Indicates a dietary restriction or guideline for which the menu item is suitable, e.g. diabetic, halal etc.
Properties from HowTo		
cost	MonetaryAmount or Text	The estimated cost of the supply or supplies consumed.

Is why google recipe snippets look so consistent even though they come from 1000's of different sites



Lentil dhal

Taste

4.7 ★★★★★ (98)

30 min.

Red lentils, naan bread, butter, lemon juice, garlic



Indian Red Lentil Dal

The Wanderlust Kitchen

4.5 ★★★★★ (2.2K)

30 min.

Red lentils, tomato, green chili, ginger root, cilantro



Spinach, sweet potato & lentil dhal

BBC Good Food

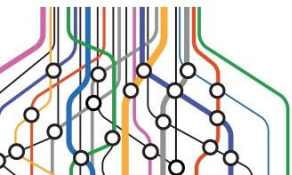
4.6 ★★★★★ (527)

45 min.

Sweet potatoes, spinach, thai basil, sesame oil, ginger

Imagine if 1000's of different supply chain consignment websites could be interpreted as consistently recipes!

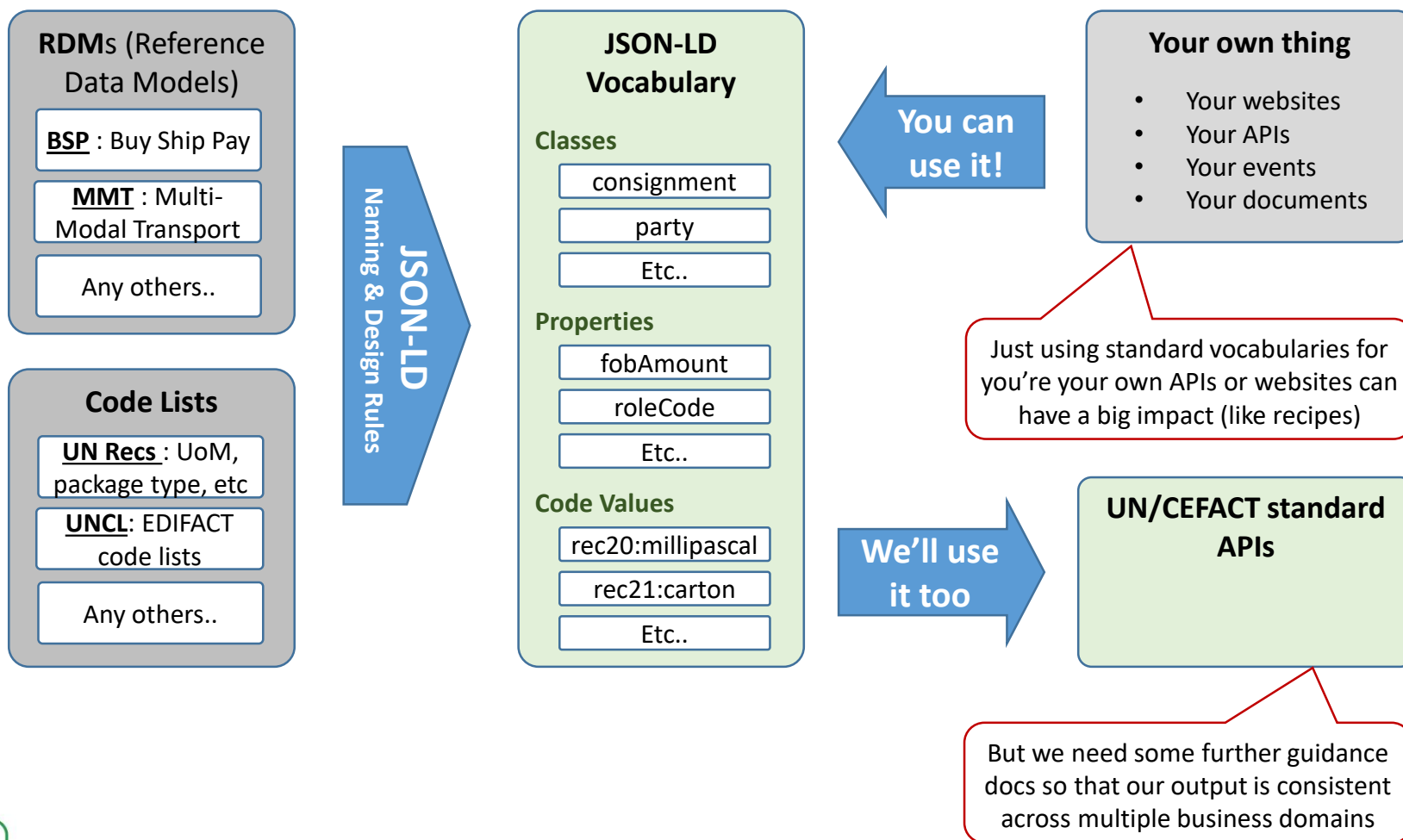
That's why our JSON-LD NDR follows the same technology practices as schema.org





RDM2API – Using the vocabulary

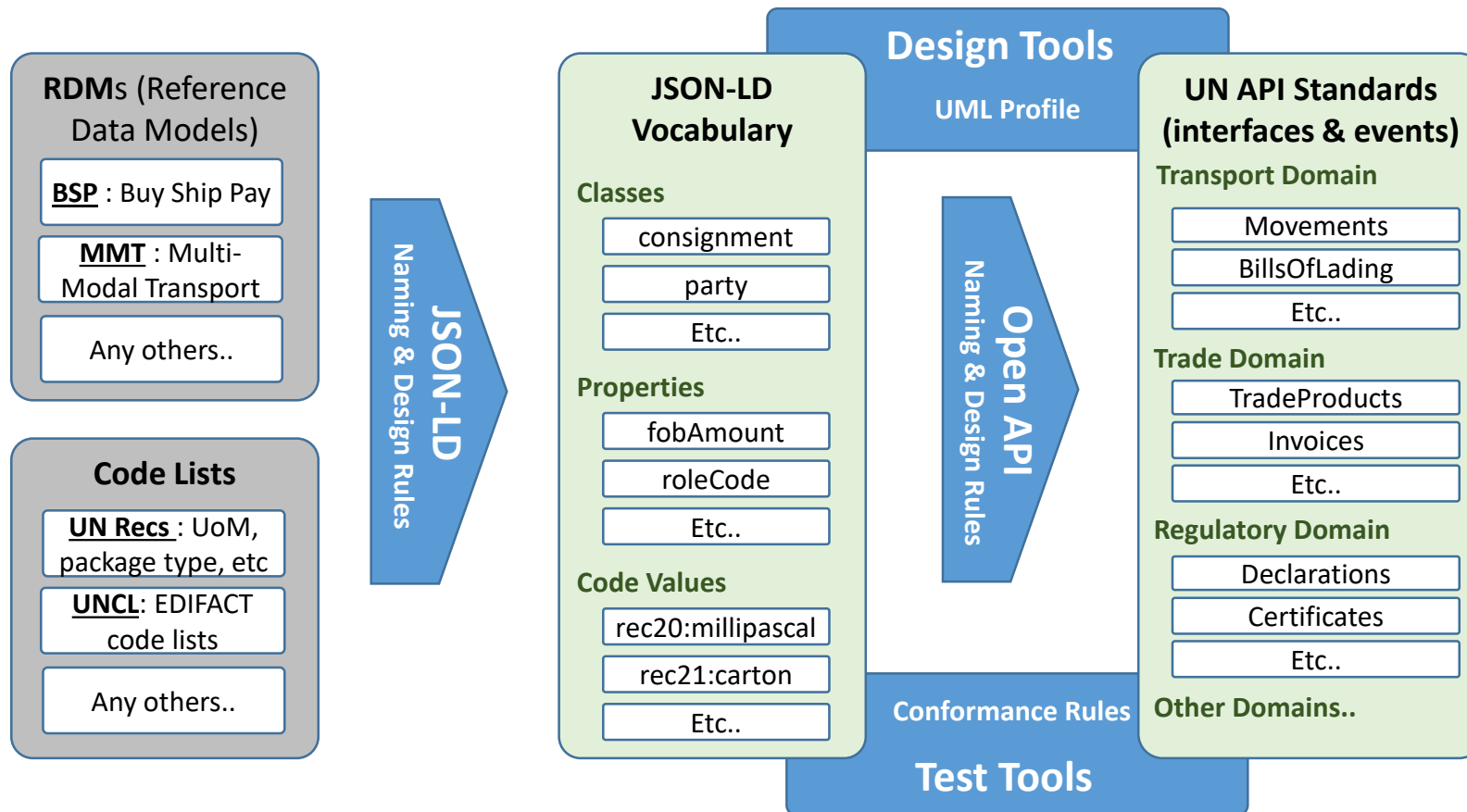
But the vocabulary is just the start – the next thing is to use it for data exchange.



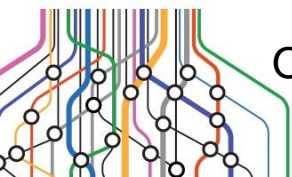


RDM2API – UN/CEFACT standard APIs

We have drafted some Open API design rules and documented a UML profile so that API designers can use simple tooling to make high quality API designs.



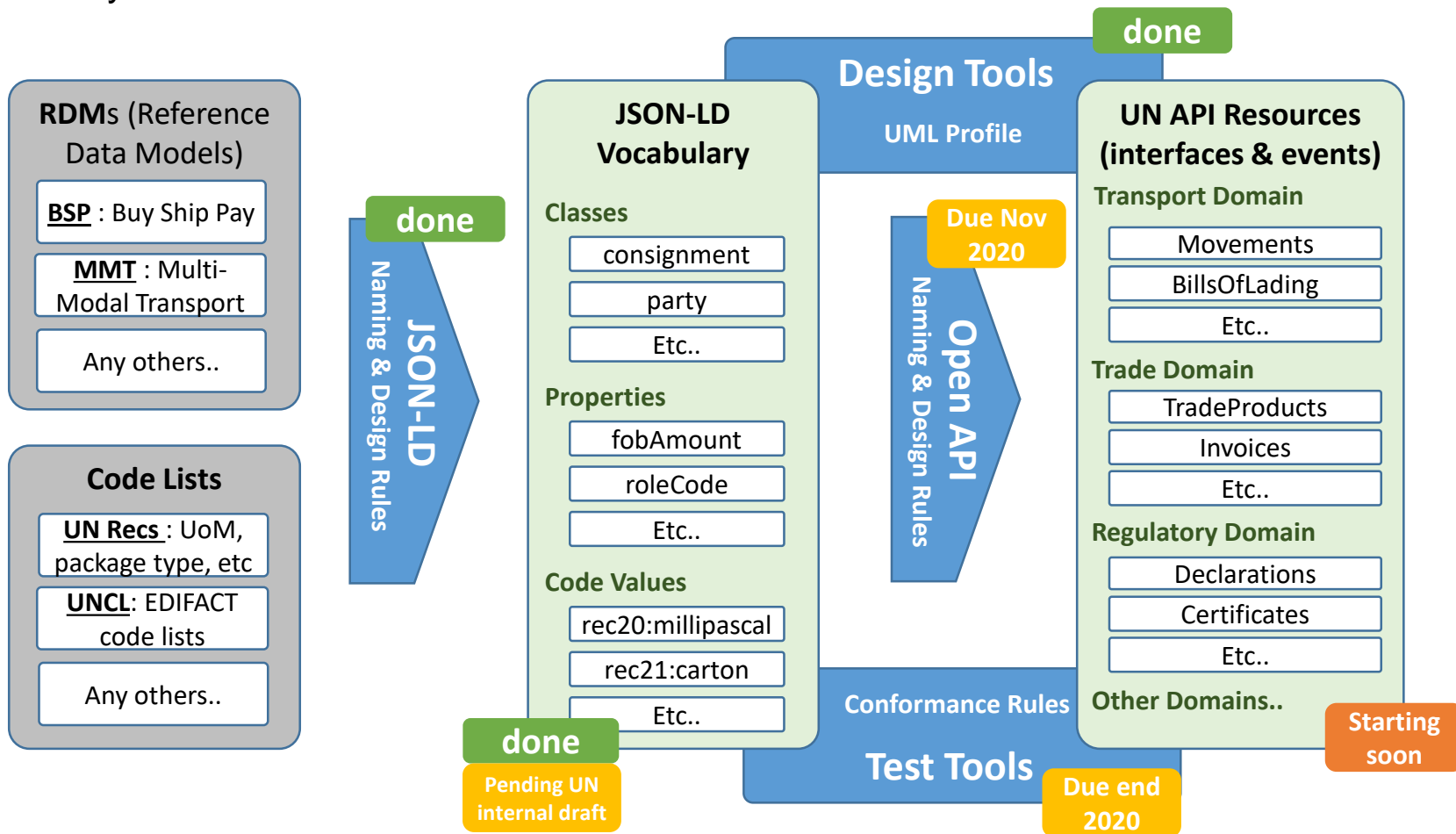
Others will demonstrate this today so I wont steal their thunder!





RDM2API – Timeline

We are nearly done! We will have the complete framework completed and tested before year end.





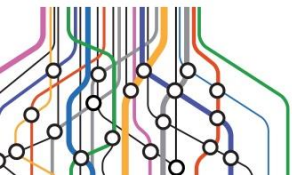
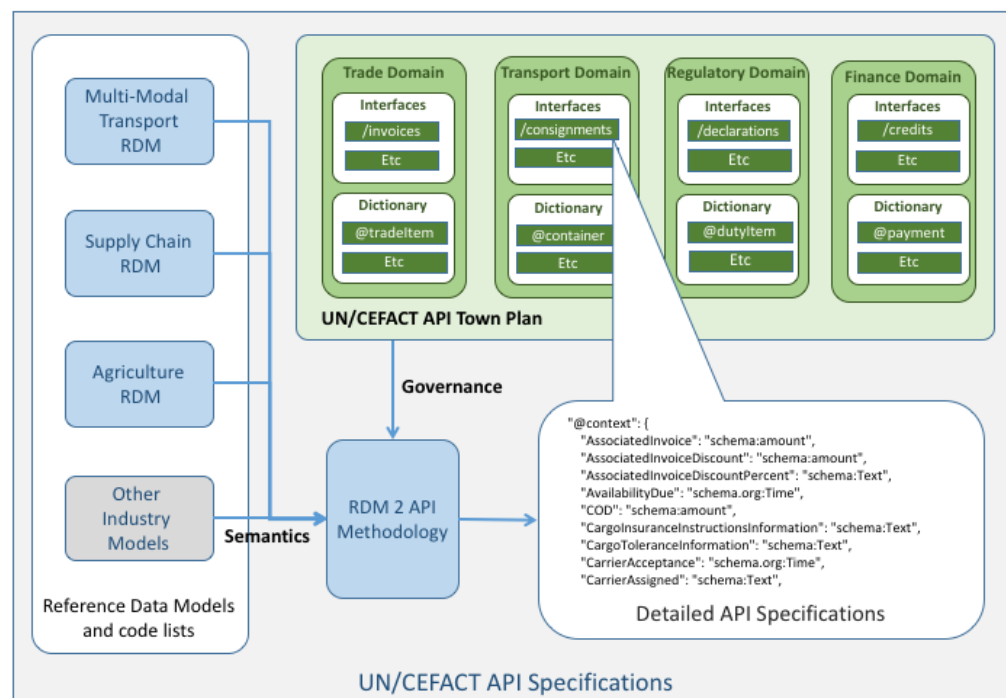
API Town Plan Project

An API serves a specific function – like voyage scheduling or container tracking. There are hundreds of functions across the international supply chain and, for each function, dozens of alternative ways to implement it. So there is potential for a chaotic confusion of API “standards”.

In the same way that good city planning makes for a liveable city - so our API town plan project is a governance framework to ensure that we deliver a well organised suite of API standards.

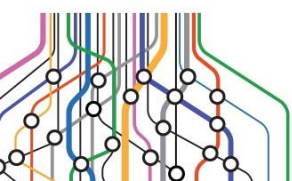
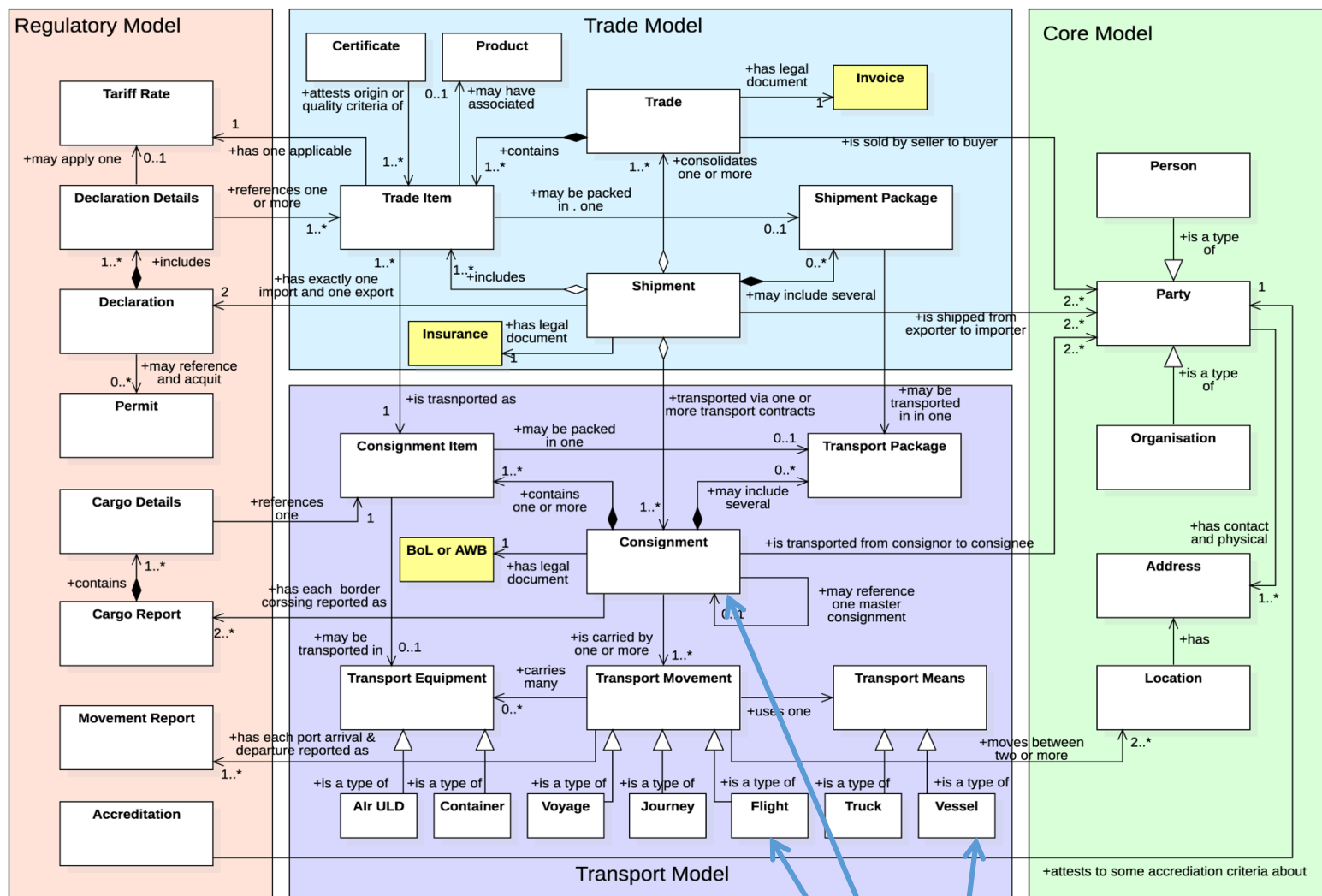
The town plan aims to define:

- A map of business areas and API resources (ie the plan).
- Governance rules for changing the plan (eg a new area or resource)
- API version control (eg major.minor) and lifecycle rules (eg draft, stable, deprecated)
- Publishing model for JSON-LD vocabulary and API specifications.
- Implementation conformance criteria (i.e. how you can claim compliance)
- Community feedback mechanisms (i.e. how you contribute your needs and tell us what to fix).





API Town Plan – Draft Map

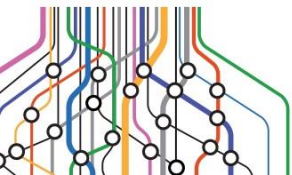
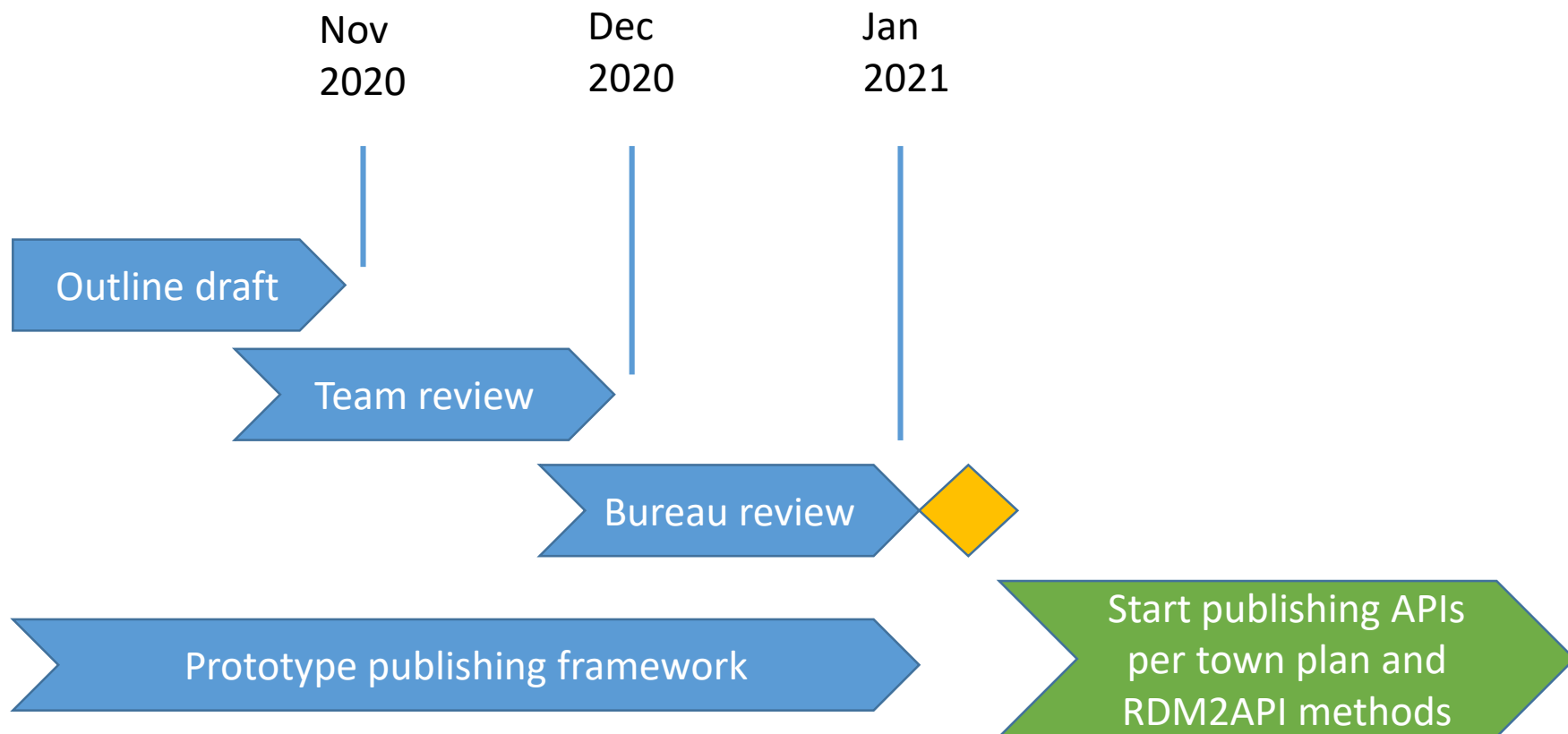


API Business Areas (e.g. suburbs)

API Resources (e.g. buildings)



API Town Plan – Timeline





Thanks for listening

Feel free to contact me

- Via e-mail at: Steve.capell@gmail.com
- Via slack chat at : <https://edi3.org/community/>

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