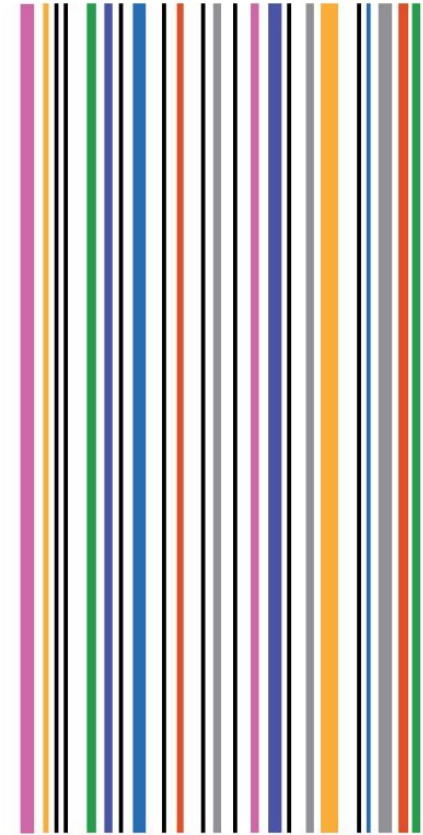




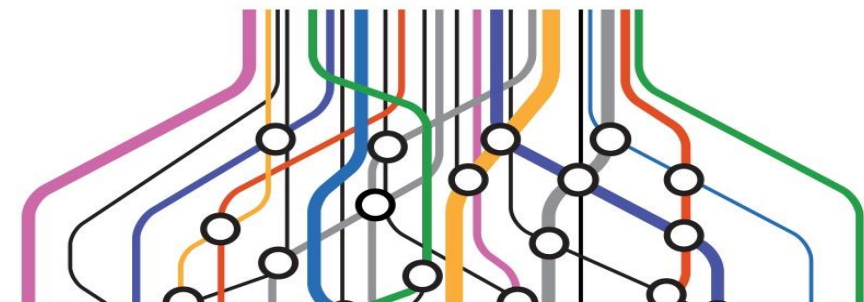
# Single Windows

*A peer into the future*

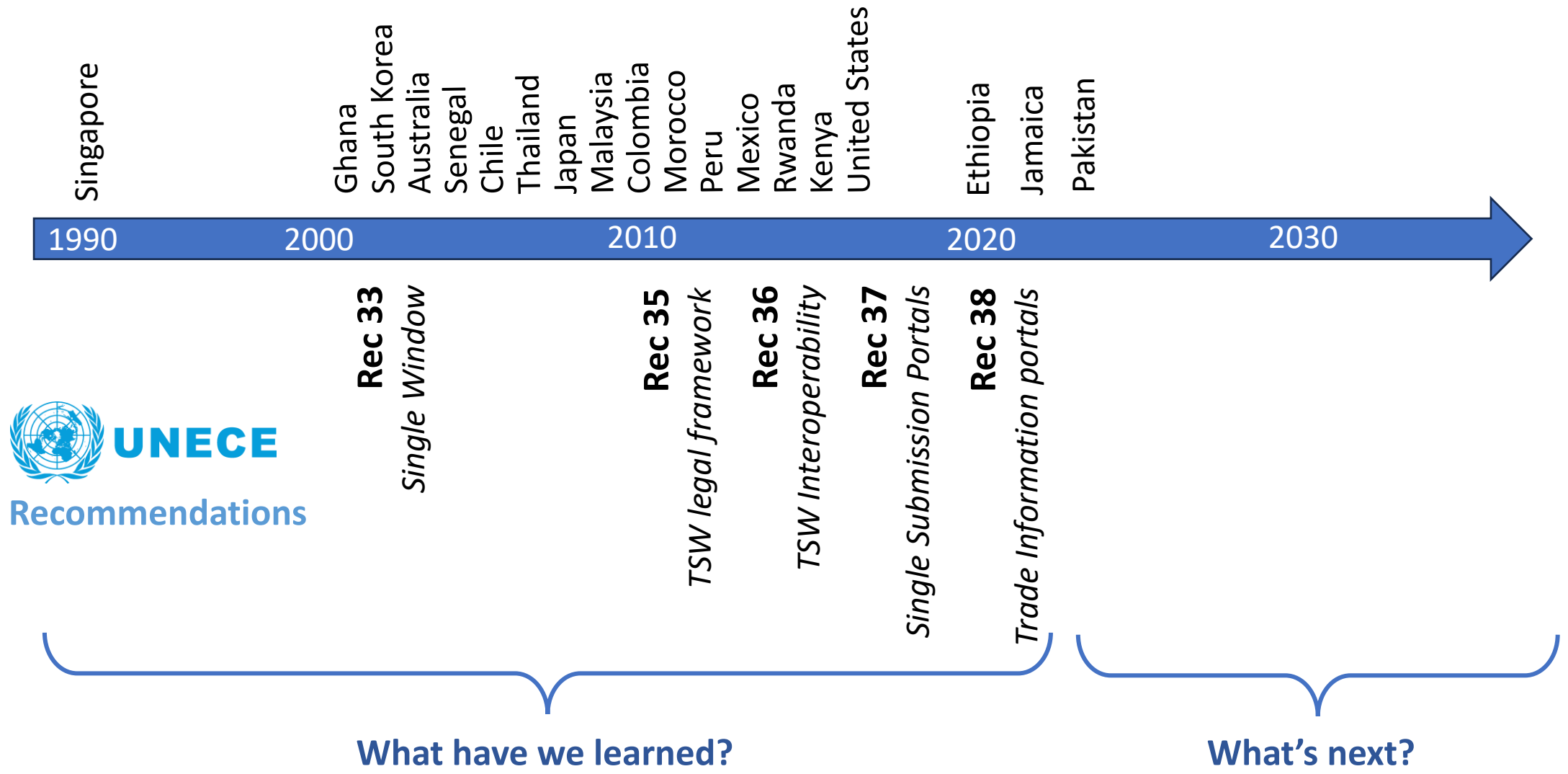
Steve Capell  
steve.capell@gmail.com



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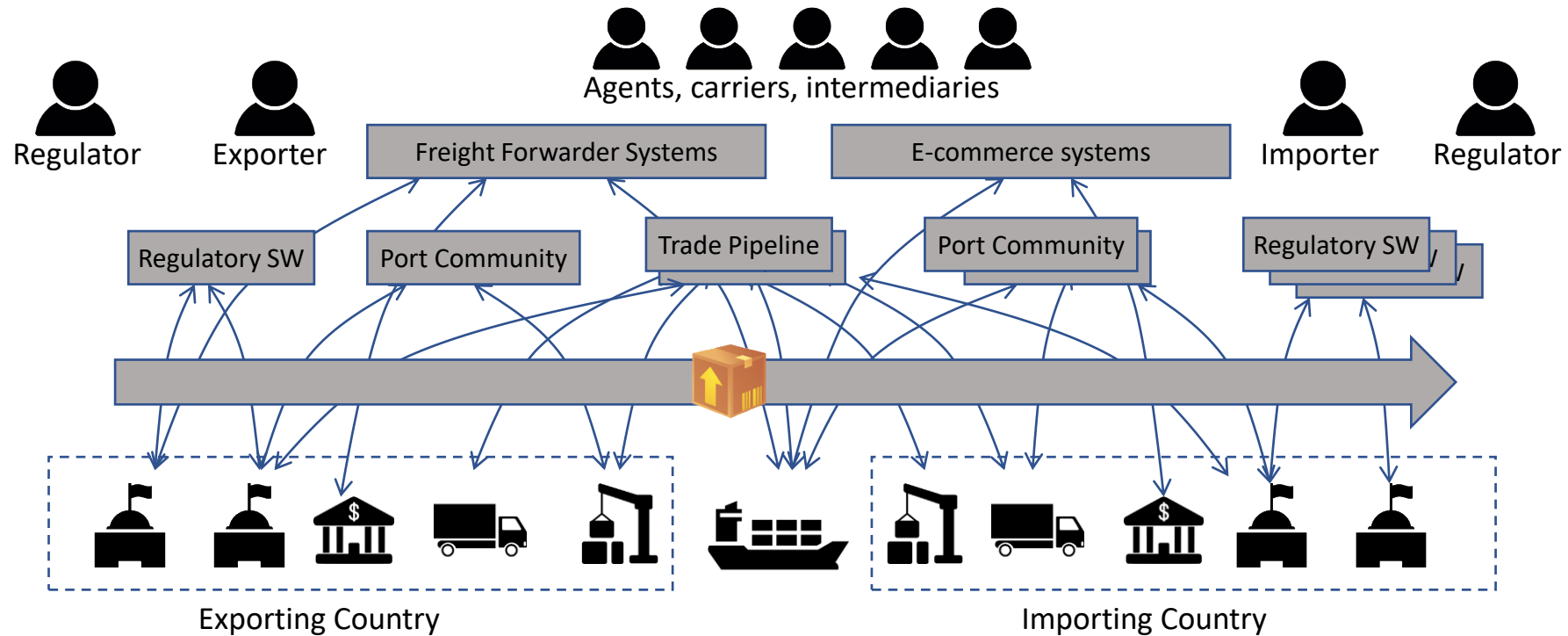


# A Single Window Timeline



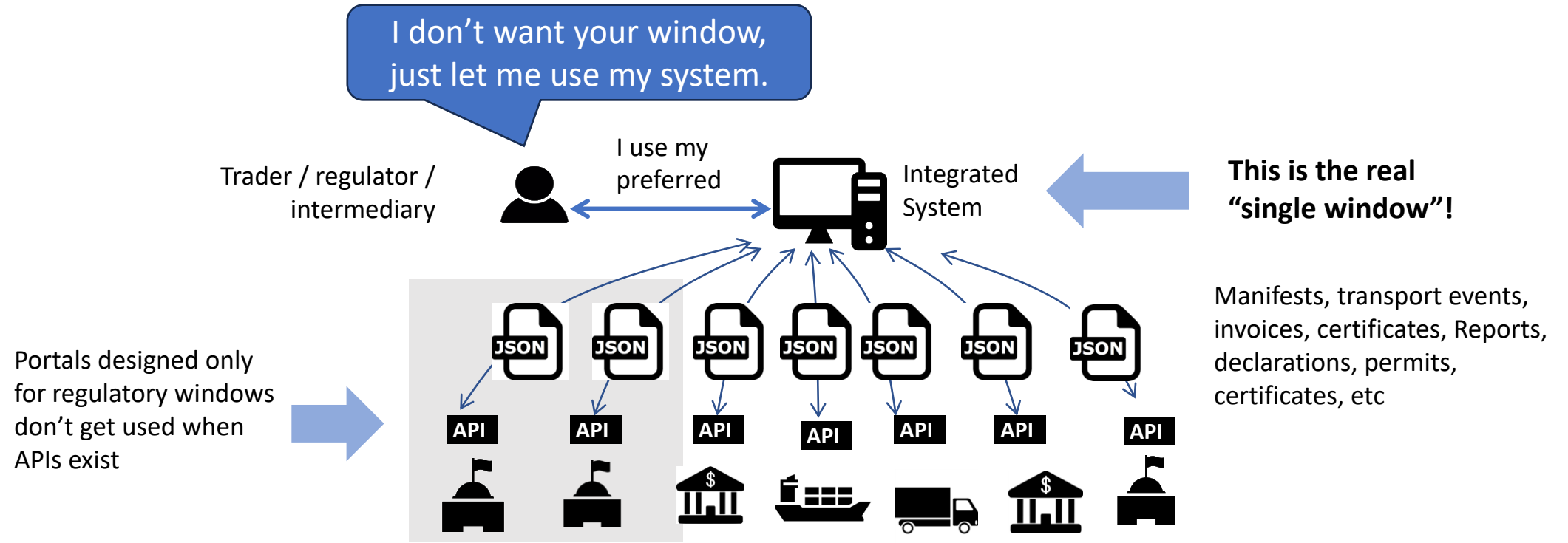
# Lesson 1 – there’s lots of “windows”

For any given shipment, there’s any number of “windows” that play a role. Here’s just a few.



Portals of all kinds exist (UNECE Recommendation 37)

# Lesson 2 – API’s rule – there’s “no wrong door”

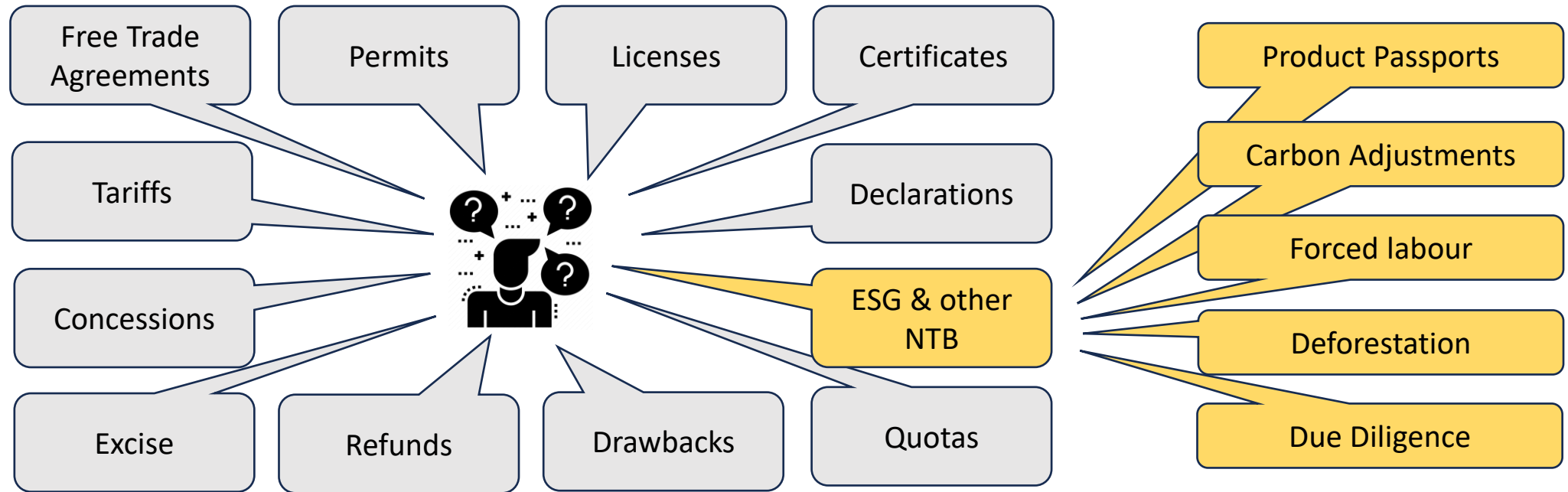


Evidence: Australia’s integrated cargo system (ICS) experience mirrors many other nations

- 99% of transactions come from external API integrated systems – nobody uses the portal
- 100+ different external systems integrate with ICS.
- 6 of them are commercial “single windows” that combine regulatory, finance, logistics. These will always offer a more complete experience than a regulatory window alone.

# Lesson 3 – The rules are awfully complicated

Many single windows focus on the transactions and assume that users understand the rules. So very few actual traders use them (mostly brokers and forwarders)



**Trade Information Systems** evolved to address this (UNECE Recommendation 38)

But even with trade information systems: (ABF public data):

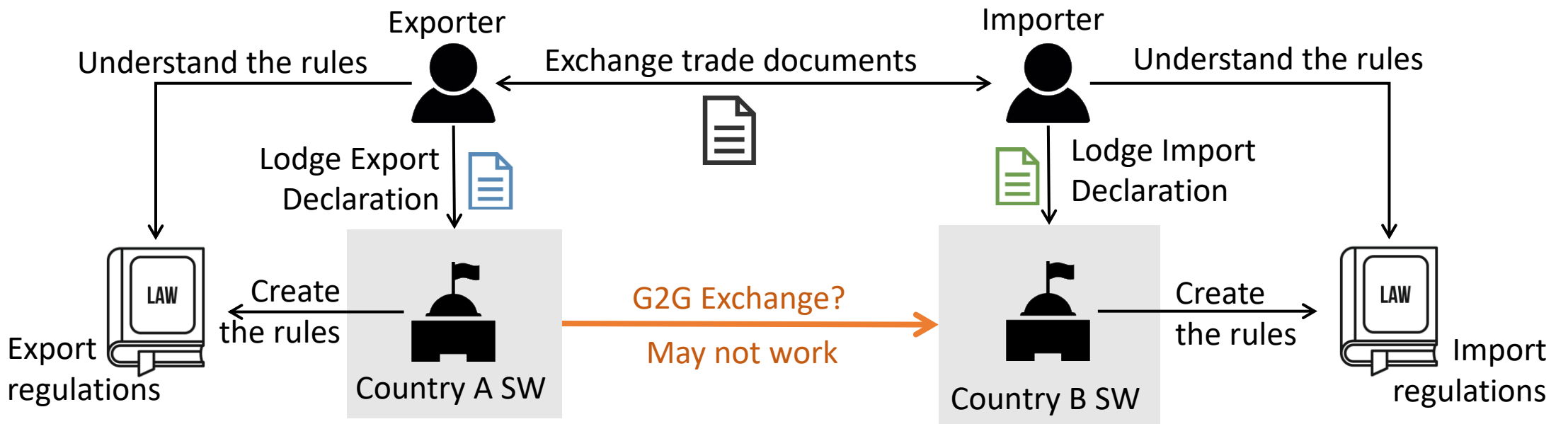
- Only 0.1% of declarations are audited – but show around **30% non-compliance**)
- Most non-compliance is involuntary – people can't get it right even when they try

# Lesson 4 – Our export is not your import

Trails of G2G data exchange between customs agencies / national single windows – with goals like “your export declaration is my import declaration” have **not worked**.

- Because export declaration data is minimal but import declaration requirements are complex.
- Because there is often no legal framework for trader consent
- Because there are often no export declarations for the given import shipment.

A “regional single window” may not achieve it’s intent.

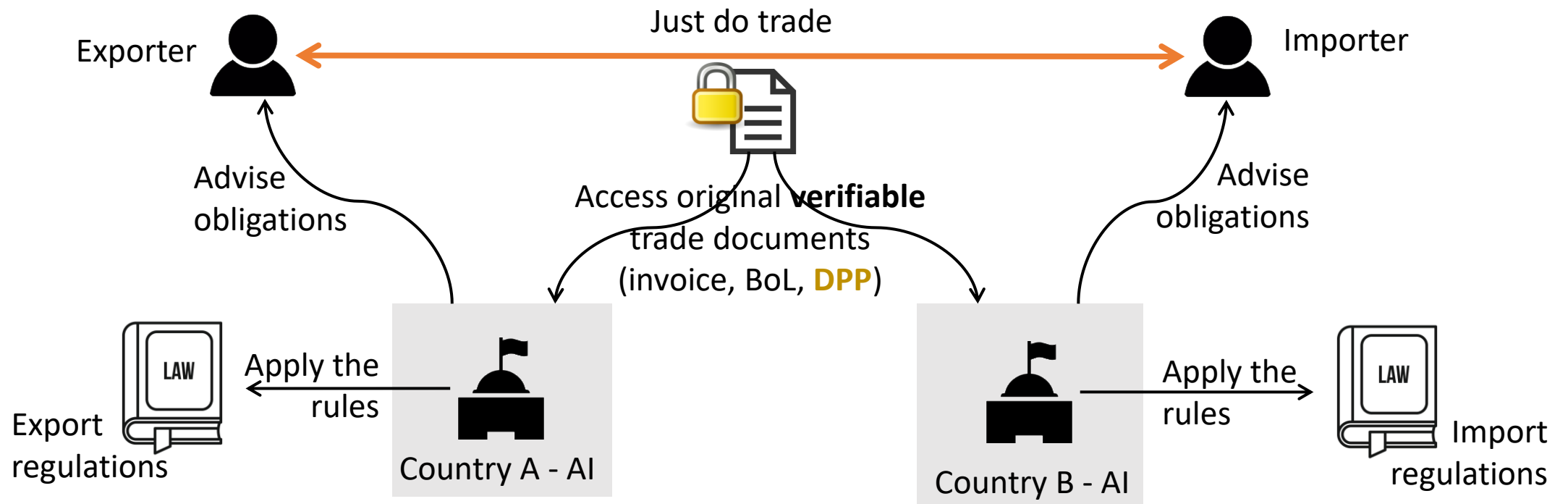


Single window **interoperability** (UNECE Recommendation 36)

# The future “single window” might be “just do trade”

The thing that is common between both countries is the commercial trade and transport documents. What if regulators (and finance organisations) just had access to verifiable business documents (invoices, waybills, product passports) and did their own assessment / due-diligence?

- **Legitimate trade** would be vastly facilitated with huge reductions in cost of trade.
- **Illicit trade** would be much harder with huge improvements in risk & compliance.

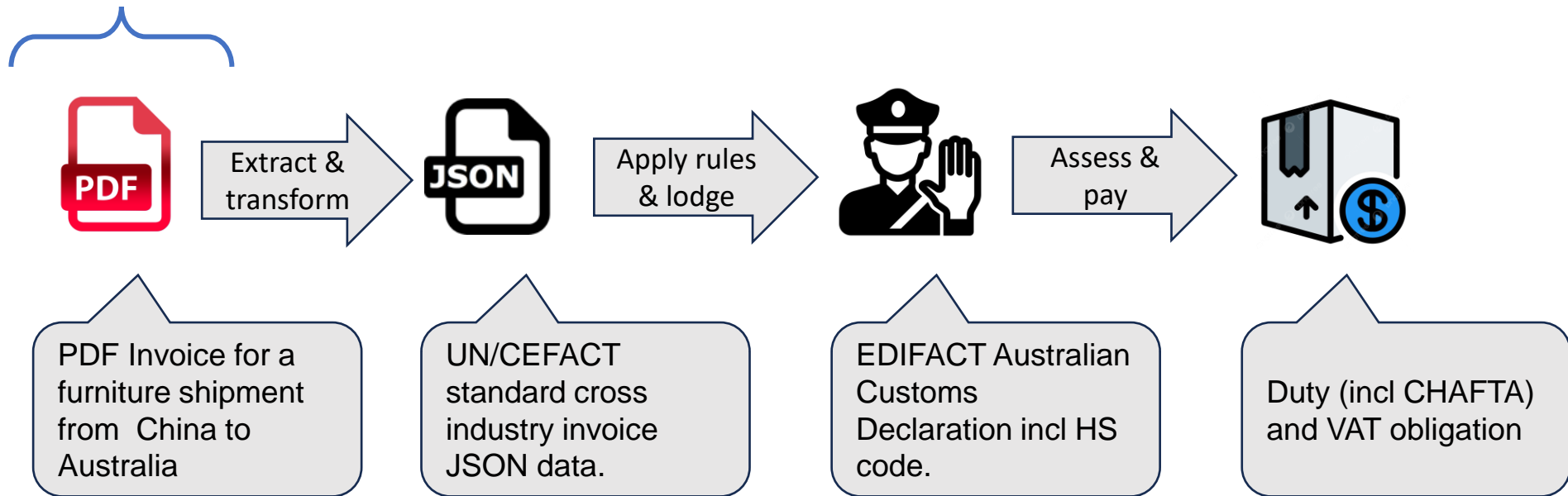


**New UN/CEFACT projects : Verifiable Trade Document Library, Global Trust Registry**

# Can AI really do that?

But that means authorities access and process data in all kinds of formats. Too hard? Let's find out!

[https://drive.google.com/file/d/1smmvp62qC0Urp\\_DISRGFeNaLGjnNbeDp/view?usp=drive\\_link](https://drive.google.com/file/d/1smmvp62qC0Urp_DISRGFeNaLGjnNbeDp/view?usp=drive_link)



And here's the AI conversation with Grok 3

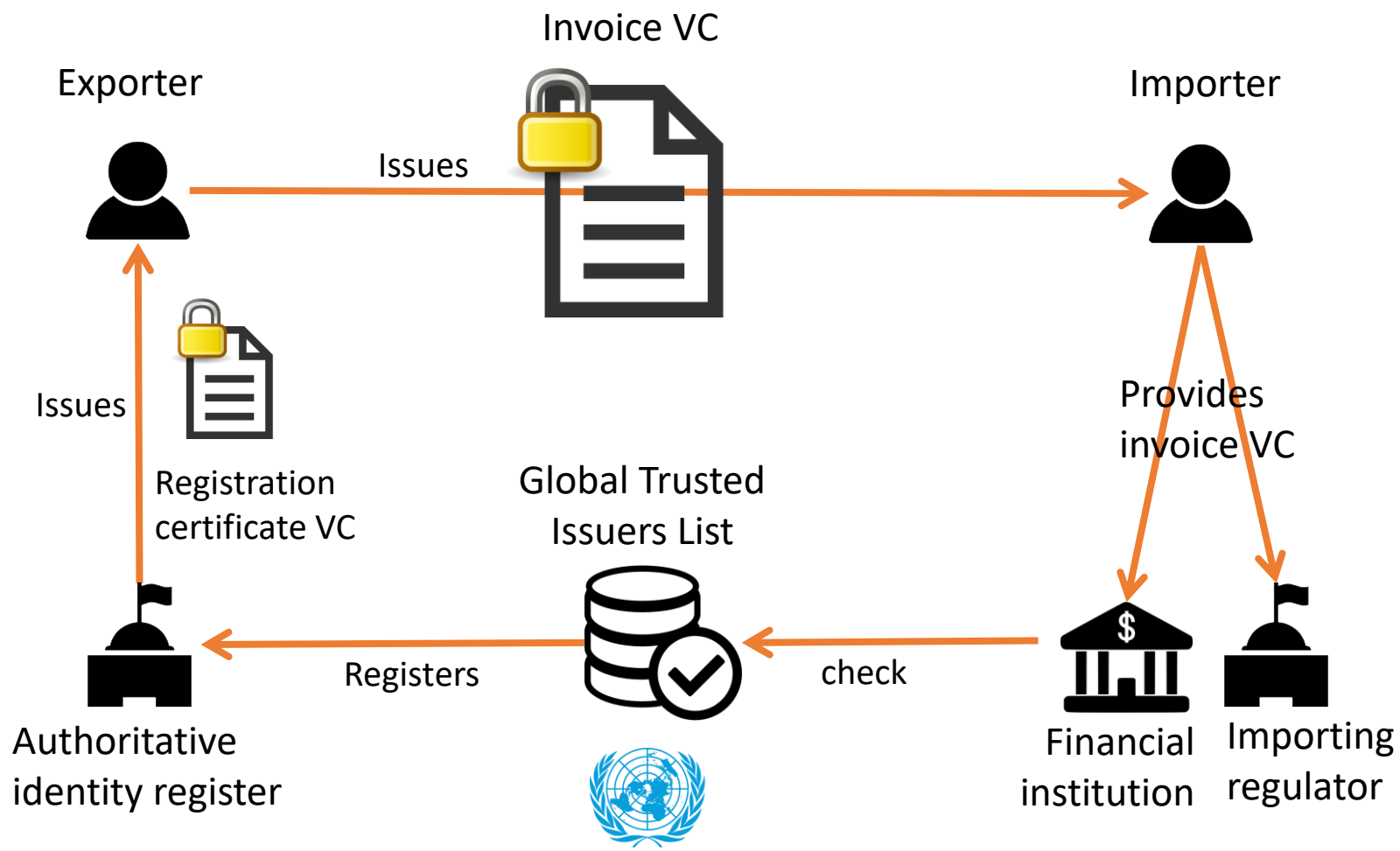
[https://grok.com/share/bGVnYWN5\\_69fcf0da-bc2d-43ce-b8c6-9586397f060c](https://grok.com/share/bGVnYWN5_69fcf0da-bc2d-43ce-b8c6-9586397f060c)

**Note** - In real AI implementations, preserve privacy of submitted data and access private rulings via a strategy of **“take the model to the data, not the data to the model”**.



# And what does “verifiable” really mean?

Verifiable Credentials (a W3C standard) provide a way to digitally sign documents such as invoices and link them to other digitally signed documents such as business registration certificates to make a chain of trust.

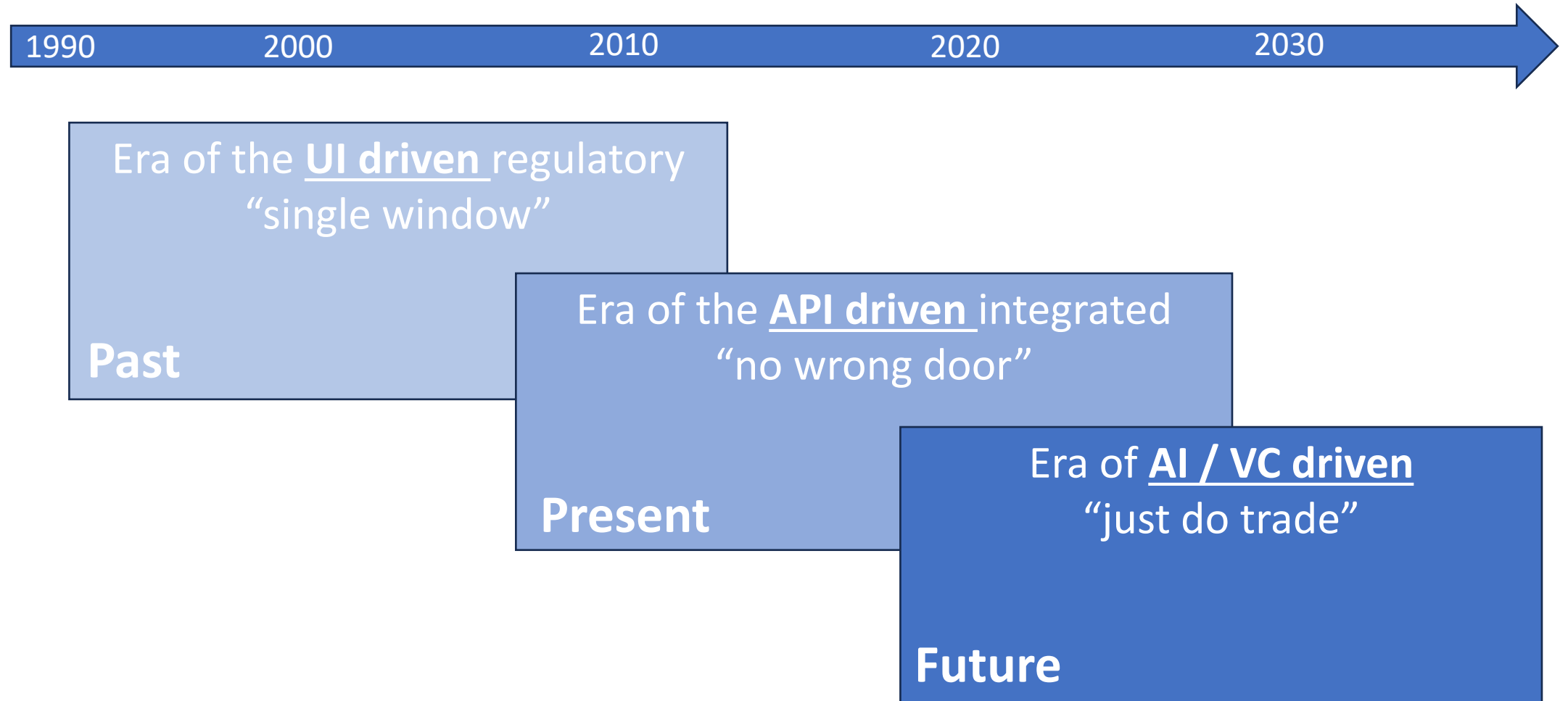


- Invoice verification**
- ✓ Document is valid and not tampered
  - ✓ Was issued by the exporter ID
  - ✓ Who is registered by authority ID
  - ✓ Which is on UN trust list
  - ✓ None of the credentials are revoked



# In summary – the single window timeline again.

We've already moved from single window portals to integrated systems and no wrong door. But more change is coming with artificial intelligence and verifiable credentials.



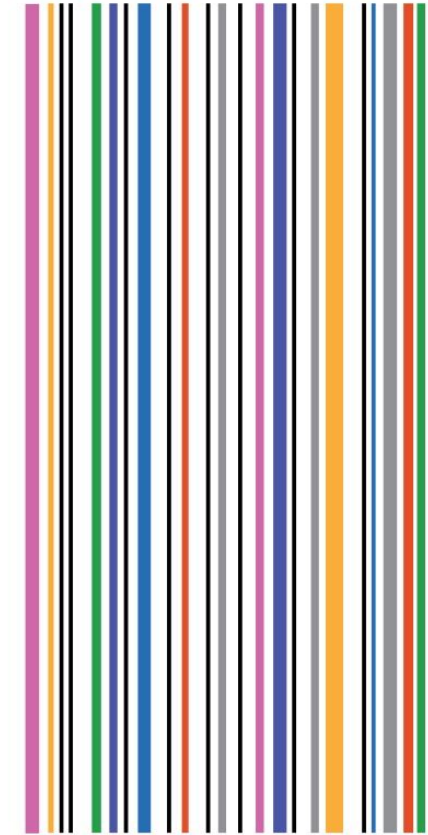


# Single Windows

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March 2025



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