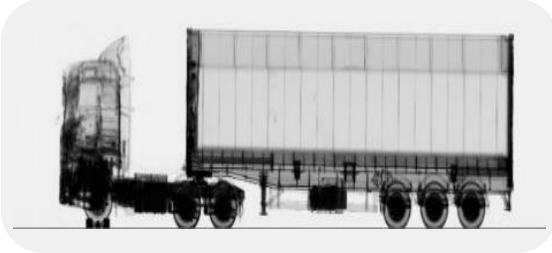


UFF : Container for NII Data

New Insights into NII Data: Multi modal Digital Fusion of Physical Goods

NII Image



Chassis Photo



RM Curve



More Sensors ...

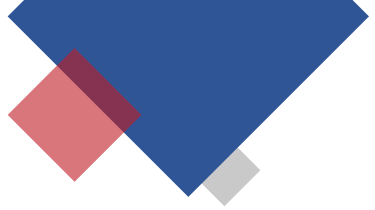
Weighbridge



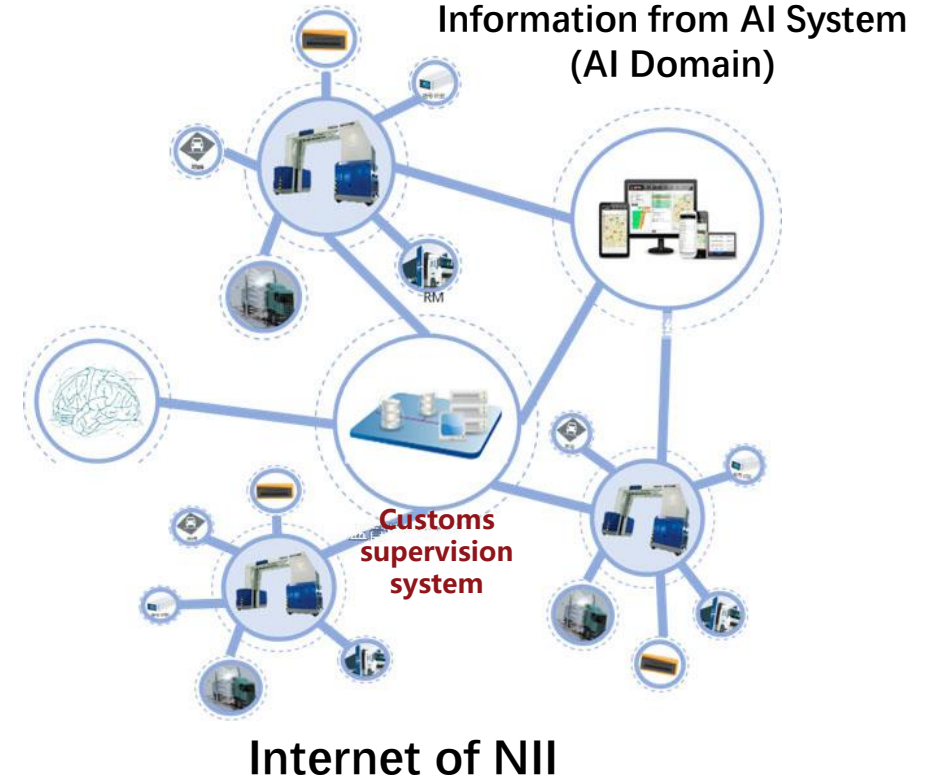
Container No
License Plate No



Digital Goods
Based on UFF format



New Understanding of NII Applications: Digital Perception and Networked Interconnection



Document Information
(Logistics Domain)



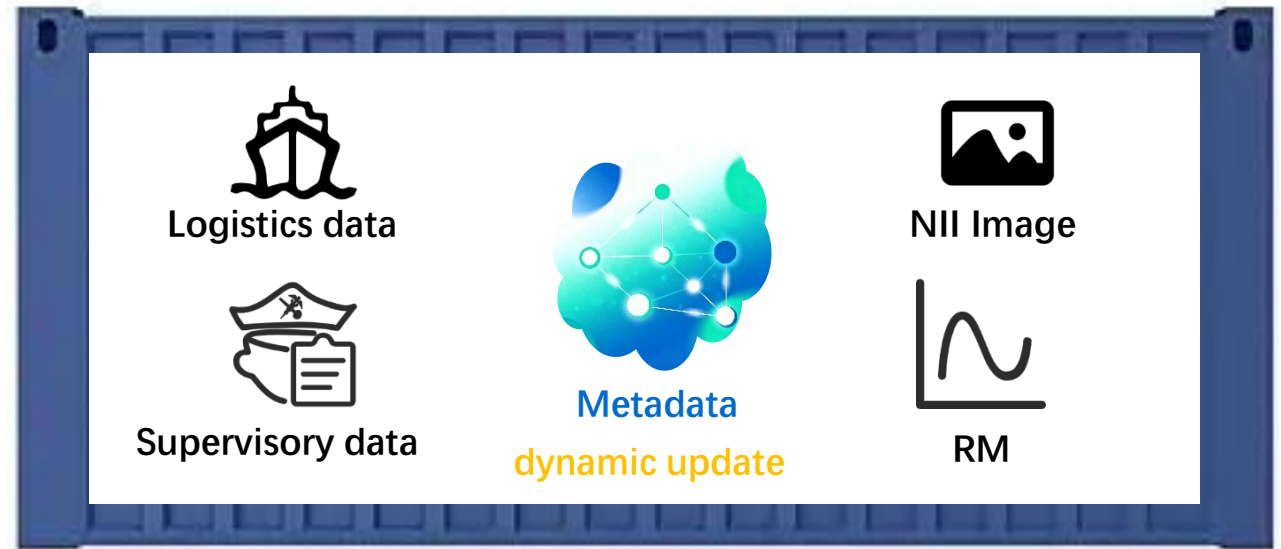
Supervision Directive & Conclusion
(Custom Domain)

We need a “Container” to save various NII data

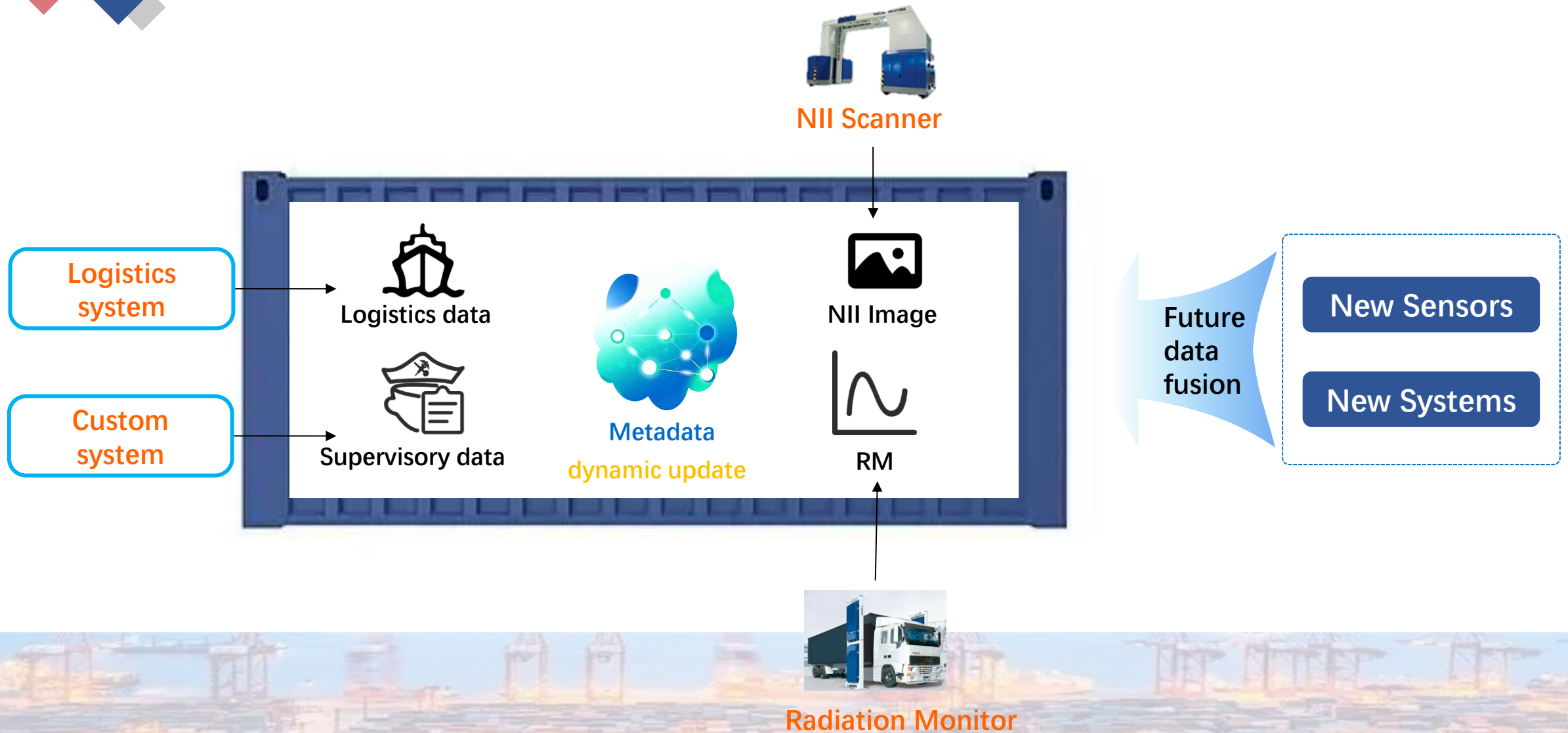
UFF Advantage

Just like a "container", various NII data from different domains are packed together, and **Independent Metadata** is similar to the "cargo manifest". Its core value lies in recording the correspondence between various data.

Independent metadata management can ensure data integrity and traceability.



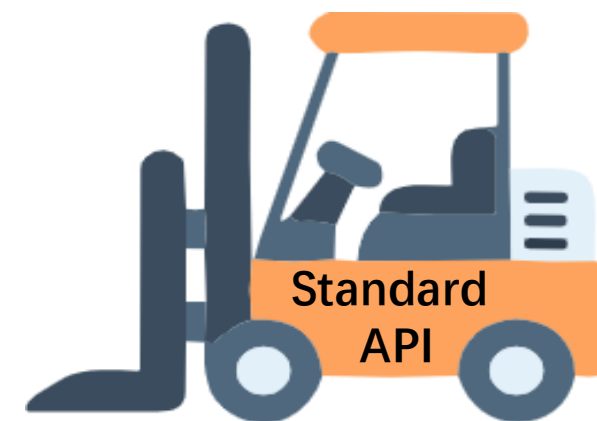
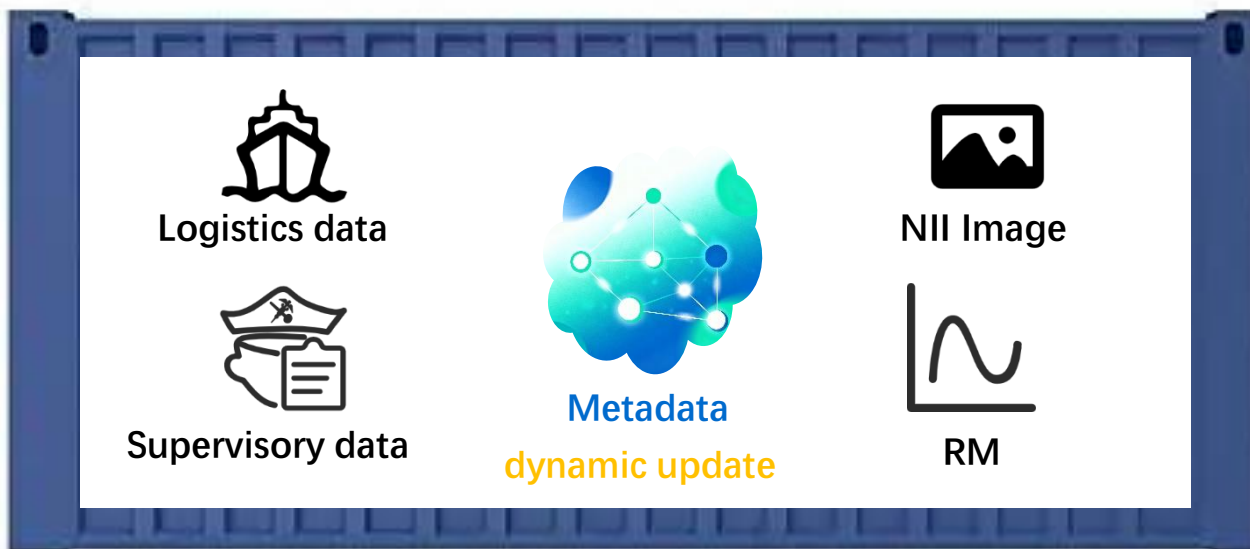
Decoupling and fusion of cross Domain and cross Modal data



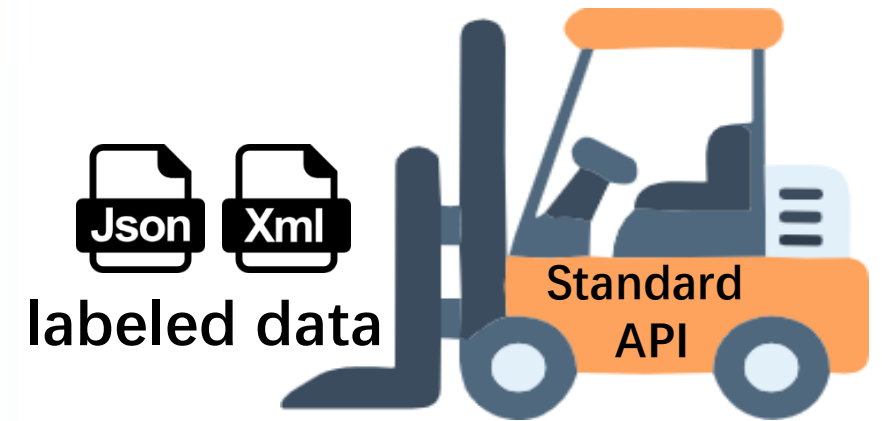
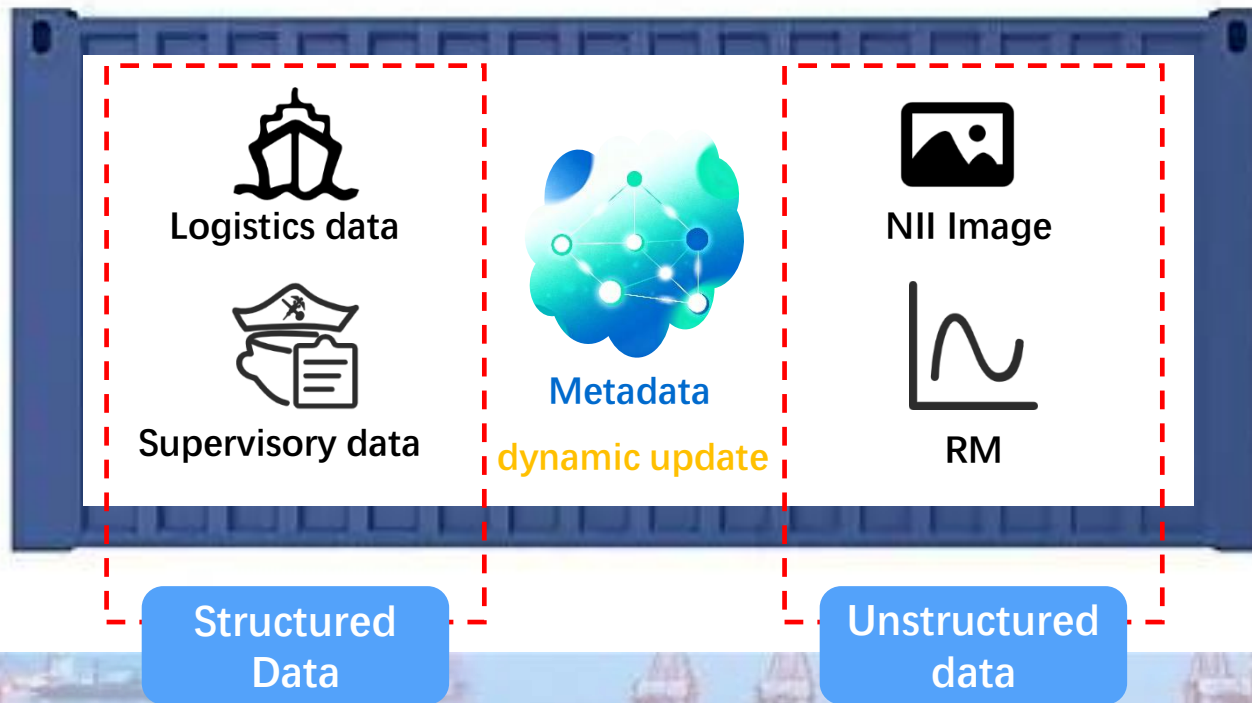
3 Key points of UFF 3.0

UFF 3.0 =

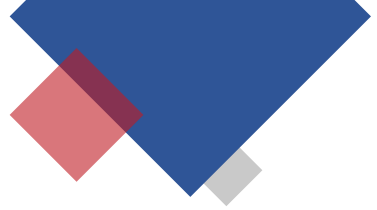
{ Multi domain multi modal raw data Added
+
Dynamic metadata layer management
+
Standard Application Programming Interface



UFF 3.0 supports AI training and application



Multi modal and multi domain data to supporting large model training



Key New capabilities brought by AI: Cross modal or Cross domain alignment

Container No

=



=

Info of goods declaration

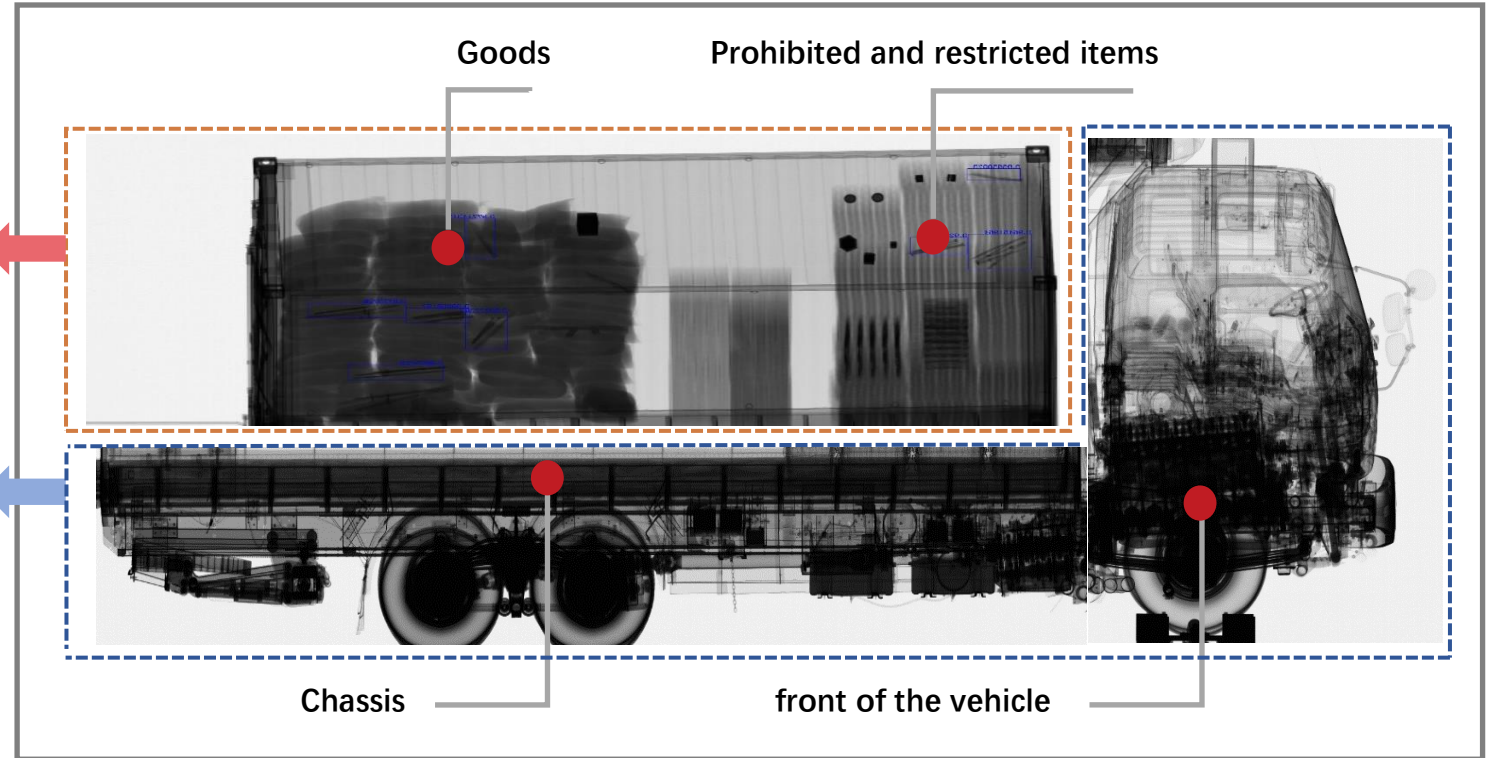
License Plate No

=

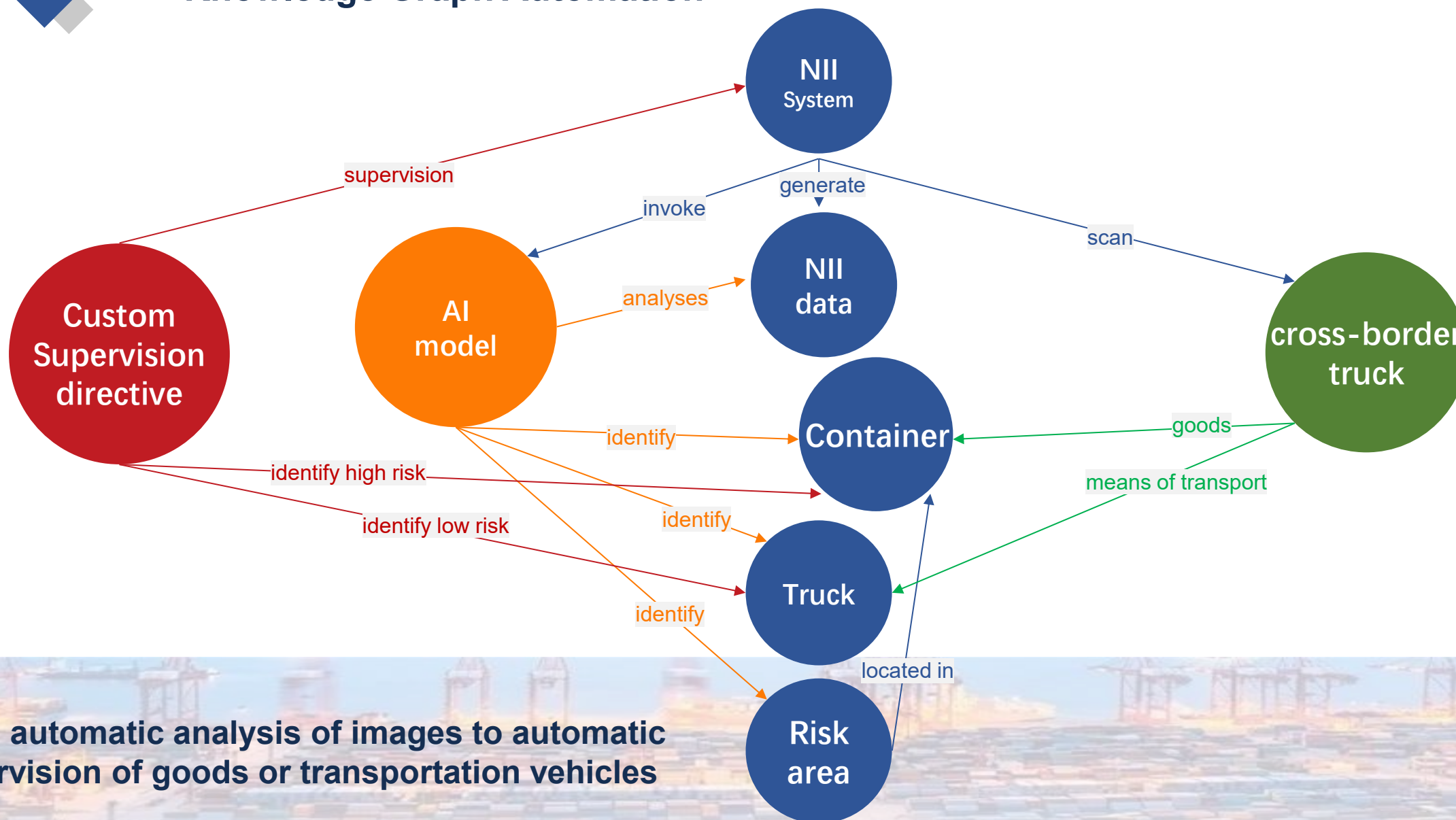


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Info of vehicle declaration



Key New capabilities brought by AI: Knowledge Graph Automation



From automatic analysis of images to automatic supervision of goods or transportation vehicles

Building a Smart Interface between Logistics and Customs



THANKS

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