

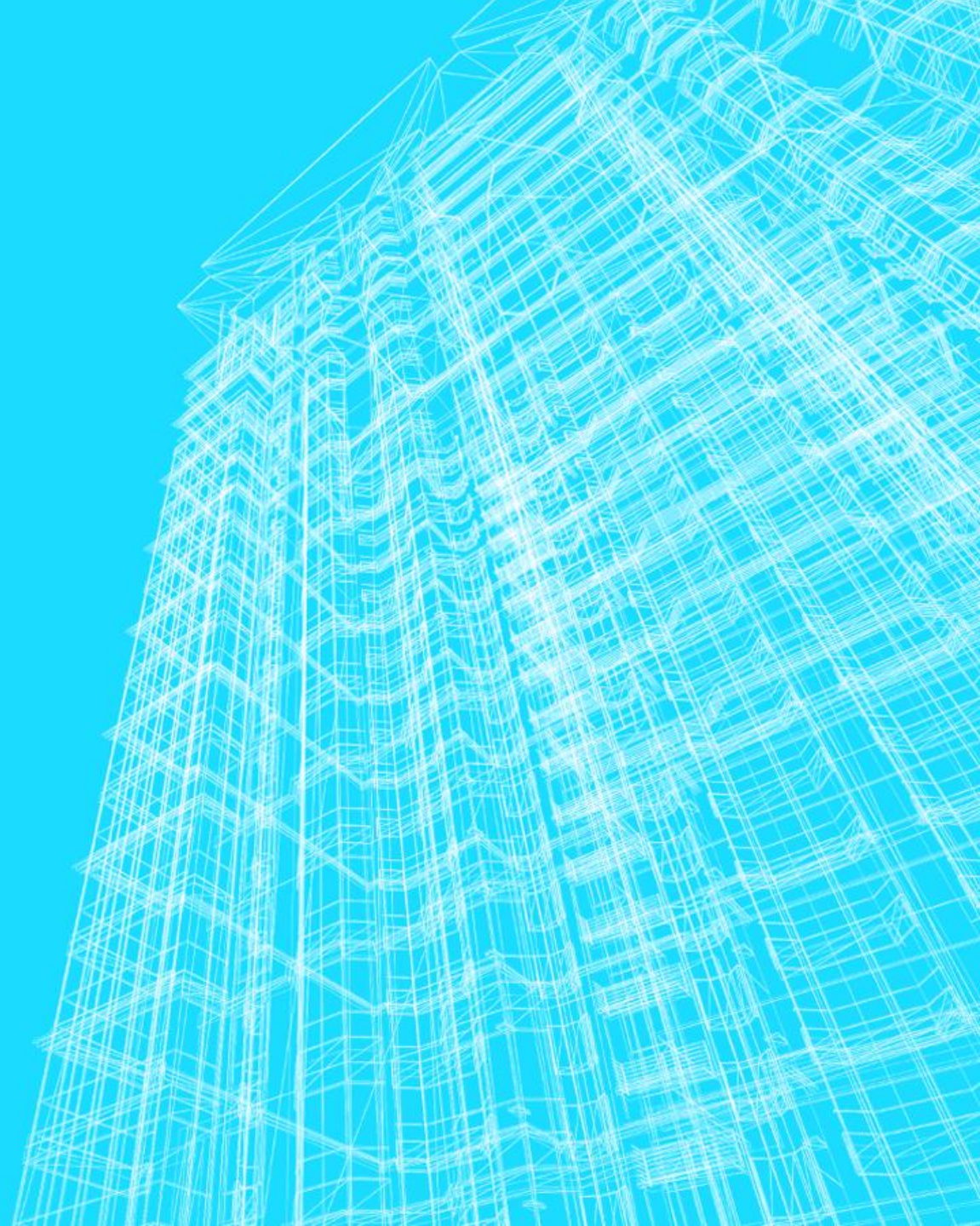
# e-Freight Documents as a Service

Stefan Gevaert





PIONIRA NV

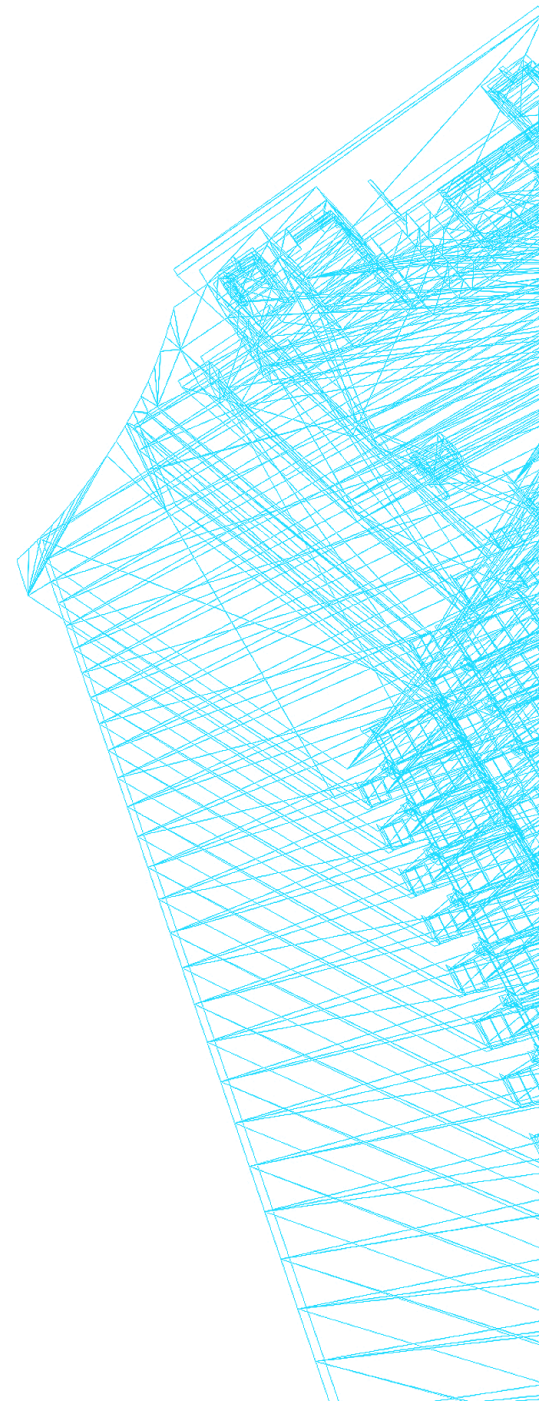




# PIONIRA

- Founded 2014, Oostkamp, Belgium
- Dematerializing paper freight documents.
  - e-CMR, DG Annex
  - Transport of Waste, Annex VII
  - Transport of non- or contaminated soil
  - ...

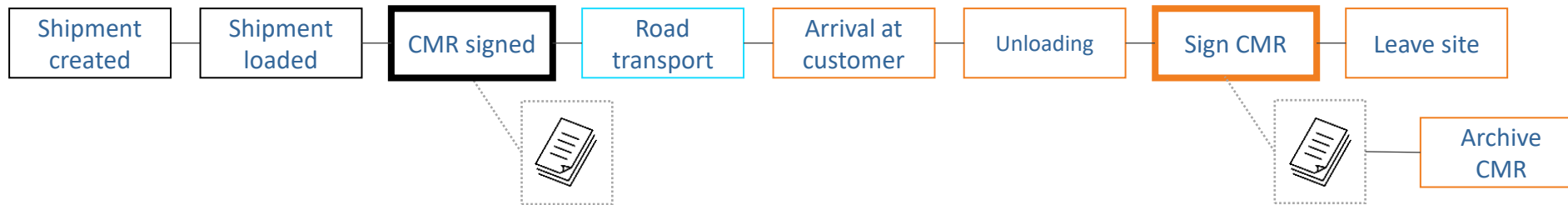
# ROAD TRANSPORT



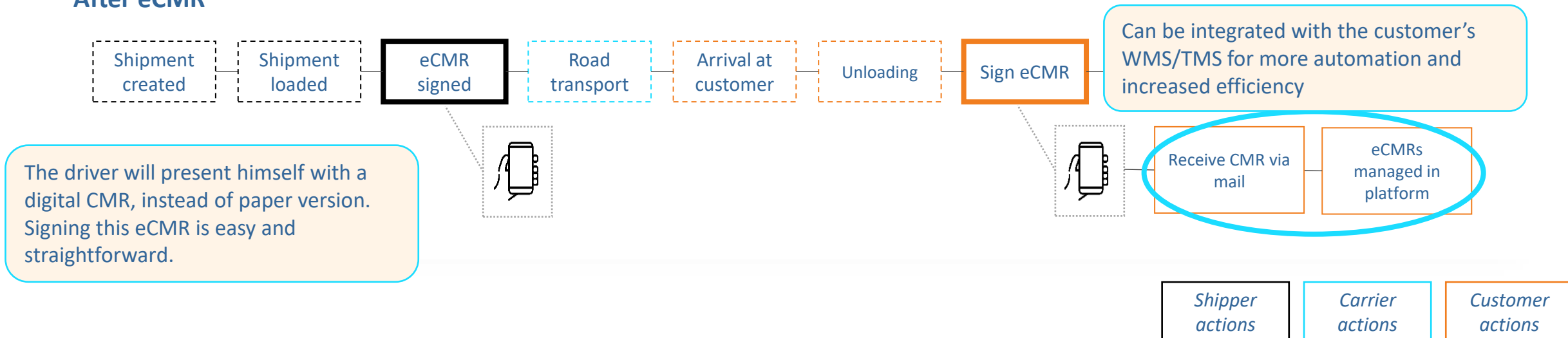
# The process

What will change?

## Before eCMR



## After eCMR







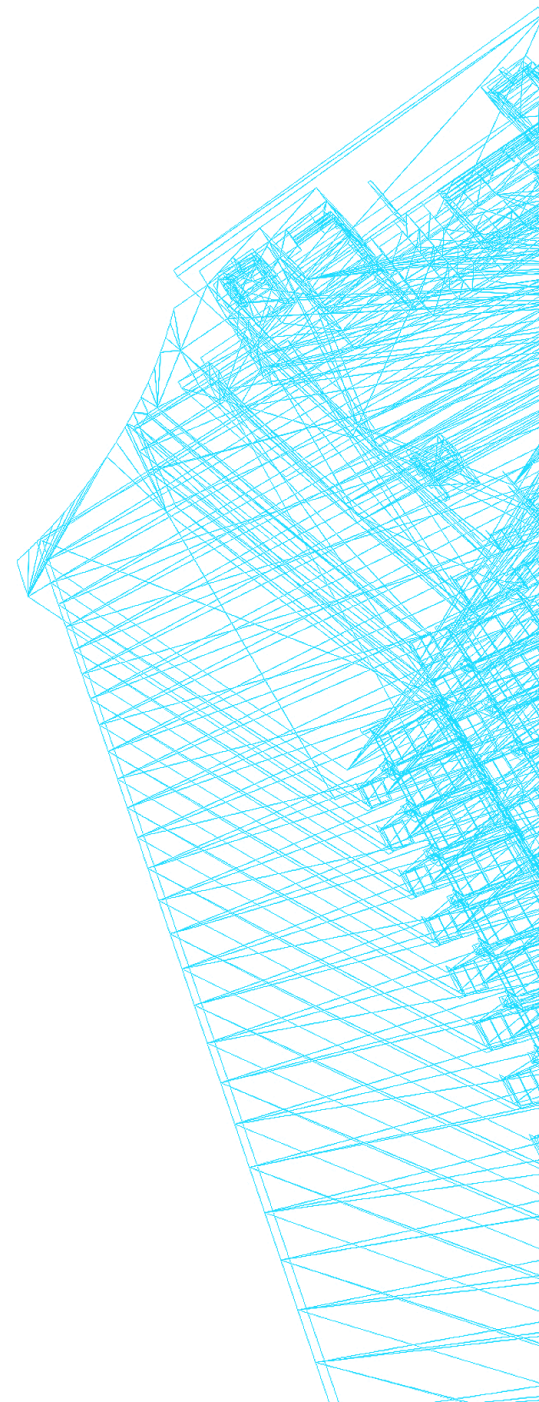
# UNECE E-CMR PROTOCOL

## Article 3 Authentication of the electronic consignment note

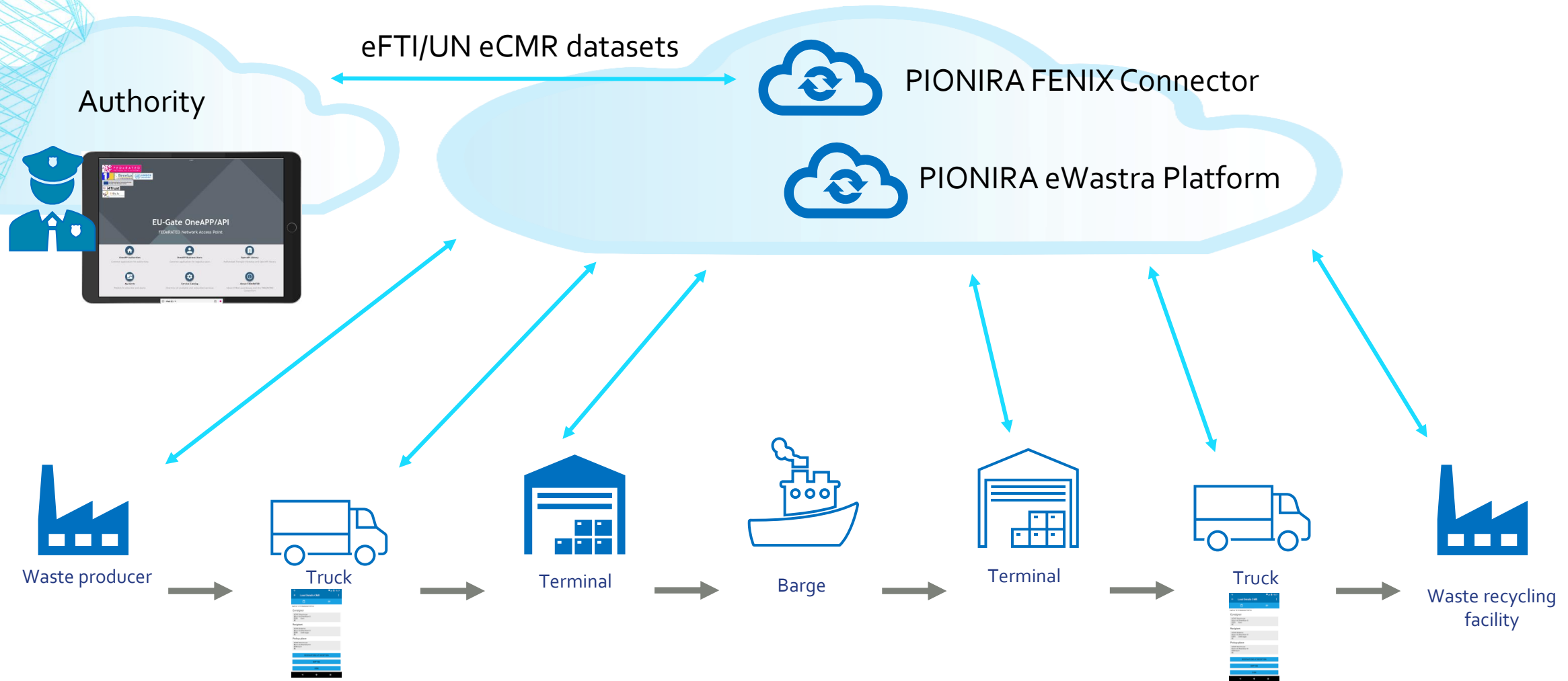
*“The reliability of an electronic signature method is presumed, unless otherwise proved, if the electronic signature”:*

- a) is uniquely linked to the signatory;
- b) is capable of identifying the signatory;
- c) is created using means that the signatory can maintain under his sole control; and
- d) is linked to the data to which it relates in such a manner that any subsequent change of the data is detectable.

# FENIX PILOT: MULTIMODAL TRANSPORT OF WASTE

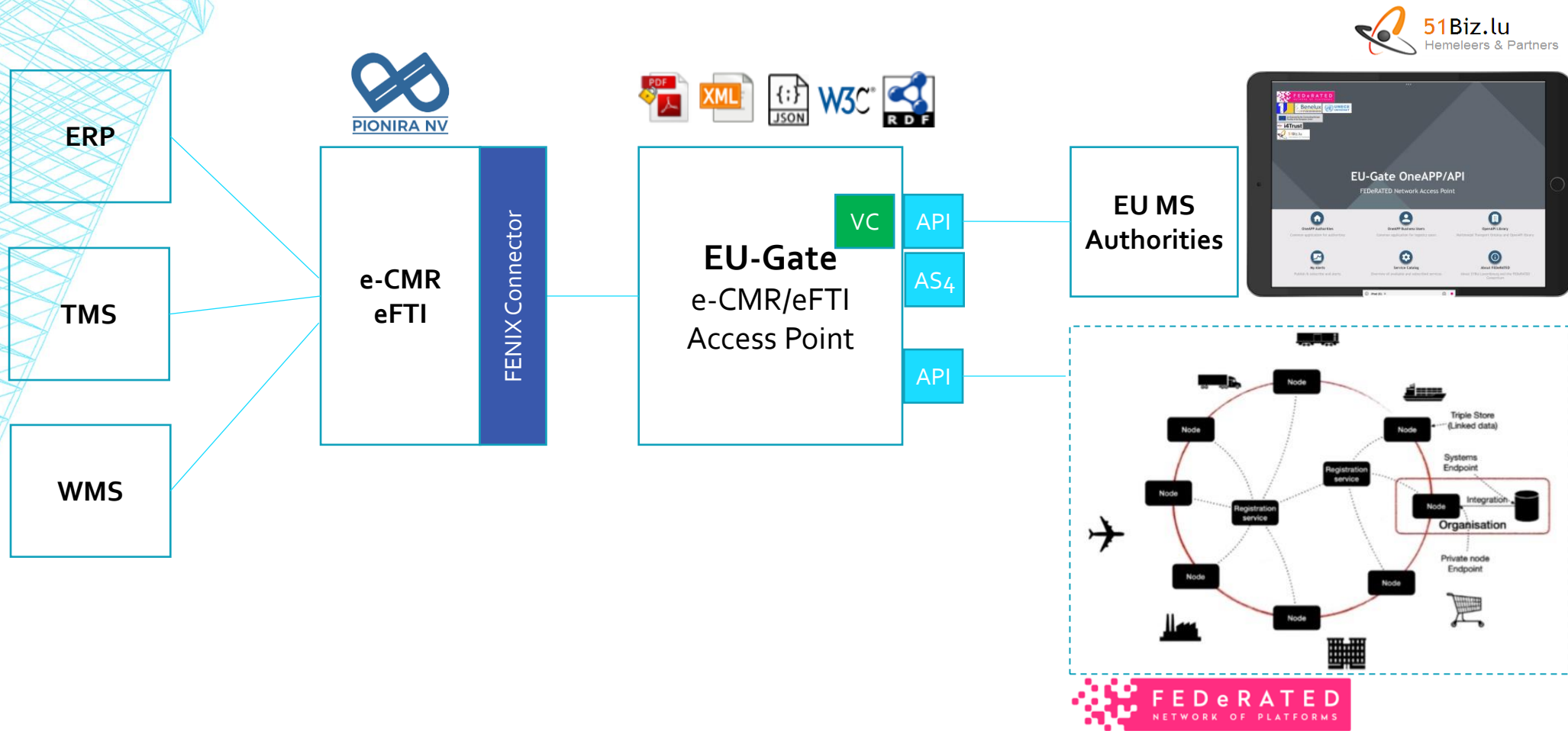


# PILOT OVERVIEW





# ONEAPP FOR AUTHORITIES





# GOALS

- Multimodal transport road/barge
- Data sharing between stakeholders using FENIX enabled platforms
- Can we use FENIX for B2A?
  - Depending on the role of the control authority
    - Extract the eCMR dataset (UN/CEFACT eCMR datamodel)
    - Extract the WSR dataset (eFTI datamodel)
  - Integration as e-CMR/eFTI platform within the EU eFTI exchange environment and FEDeRATED network of platforms



# CHALLENGES

- eFTI still work in progress
- Involving key stakeholders
  - Waste producer
  - Waste processing plant
  - Carriers
  - *Terminals*
  - *Barge operators*
  - *Rail operators*
  - Authorities



# OPERATIONAL BENEFITS

- End-to-end visibility for connected parties
- Real-time notifications using publish/subscribe
- Better reliability and predictability
- Customer centric notifications
- Reduce errors
  - Loss of paper documents
  - Wrong documents at last mile pickup
  - Wrong container delivered during last mile





# WHAT IS MISSING

- Use of the available information for optimized planning at the terminals, e-gates, ...
- Better End-to-end visibility for connected parties
  - Only delivery/pickup events of container by carriers
  - No loading/discharge events on terminal/ships

# STOP THINKING “DOCUMENTS”, THINK ABOUT OPTIMIZING YOUR PROCESSES

LETTRE DE VOITURE INTERNATIONALE

AO "ATLANT L"  
TOLYATTI  
JUNIPEROE SHAYRUS, 36  
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tel/fax +7 4742 43-10-99, 43-07-2  
INN 4823038230 IND RUS/053/08603  
FIRU 1008301228578

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VALUE 25041.53 GBP

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С. В. РАЧЕВ  
21/1/97

445633  
ТОЛЪЯТТИ  
ЕА3-157

1

Отправитель (наименование, адрес, страна)  
Sender (Name, Address, Land)

2

Получатель (наименование, адрес, страна)  
Receiver (Name, Address, Land)

3

Место доставки груза  
Destination of the Goods

4

Место и дата погрузки груза  
Place and Date of Loading of the Goods

5

Присоединенные документы  
Attached Documents

6

Эскиз и номер  
Drawing and Number

7

Количество и наименование  
Quantity and Name

8

Пакет упаковки  
Packaging

9

Наименование груза  
Description of the Goods

10

Средство  
Means

11

Вес брутто, кг  
Gross Weight, kg

12

Объем, м³  
Volume, m³

13

Упаковка (наименование, количество, вес)  
Packaging (Name, Quantity, Weight)

14

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)

15

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)

16

Международная накладная  
International Consignment Note

17

Посредник (наименование, адрес, страна)  
Intermediary (Name, Address, Land)

18

Отправитель и получатель  
Sender and Receiver

19

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)

20

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)

21

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)

22

Средство (наименование, количество, вес)  
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23

Средство (наименование, количество, вес)  
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24

Средство (наименование, количество, вес)  
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25

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26

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27

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28

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)

29

Средство (наименование, количество, вес)  
Means (Name, Quantity, Weight)



# THANK YOU FOR YOUR ATTENTION

**Stefan Gevaert**

CTO

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