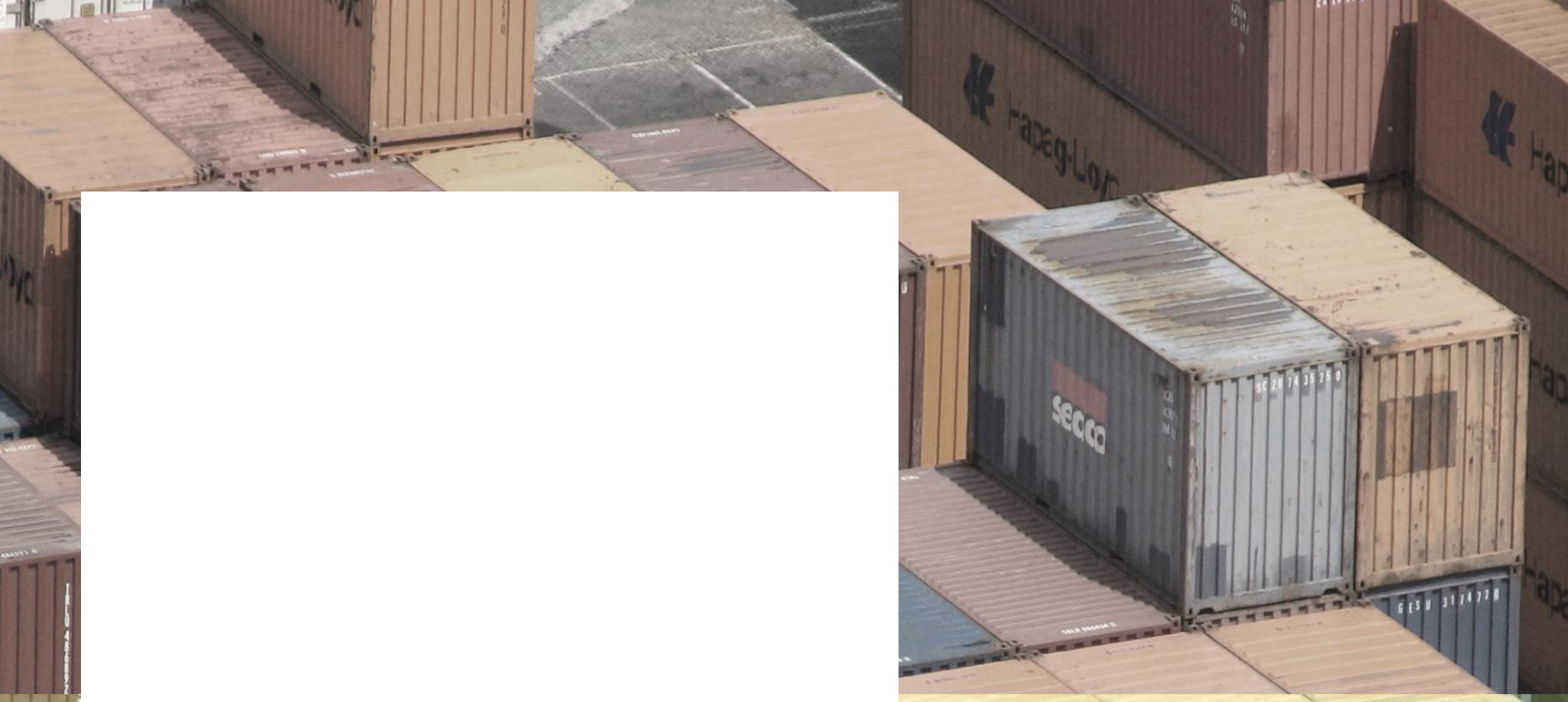
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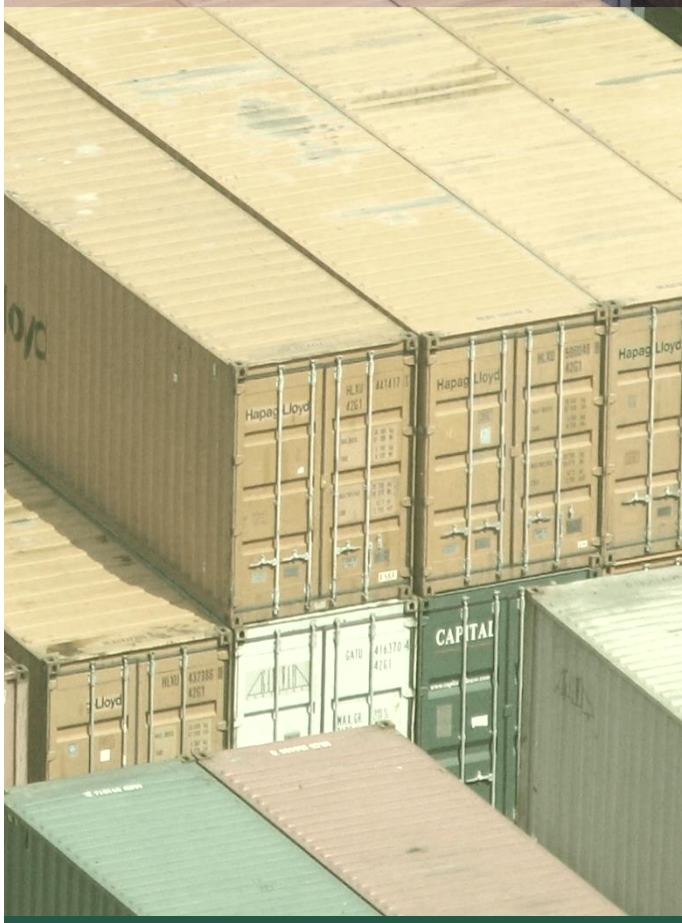
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Progress towards Federated Logistics through the Integration of TEN-T into A Global Trade Network (PLANET)

under grant agreement No 860274

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The PLANET Project

ABOUT PLANET PROJECT

PLANET project aims at boosting the EU's leadership in global logistics flows

, as well as

Preface

Executive Summary

AI based forecasting services of freight volume

Figure 1

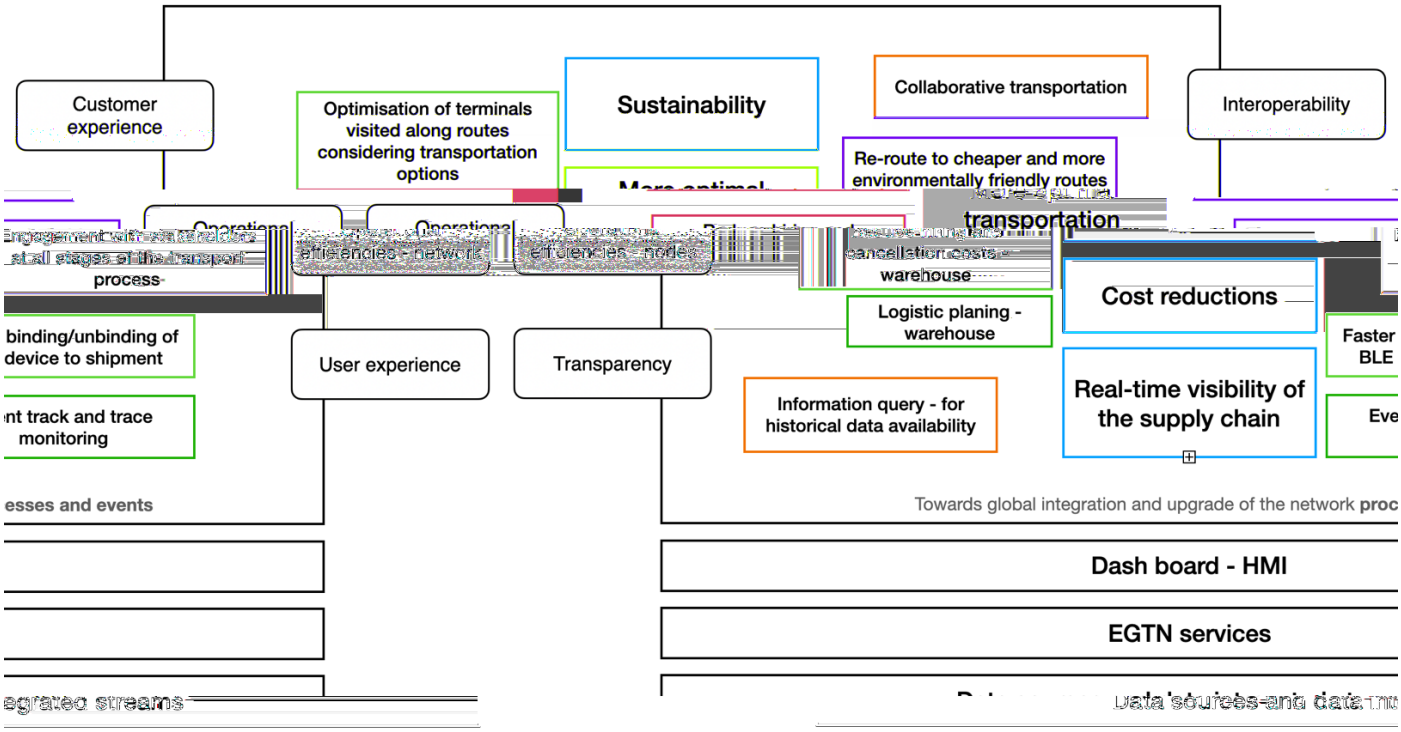

Figure 1: PLANET EGTN operational layers and business benefits of using AI when interoperating with PI services

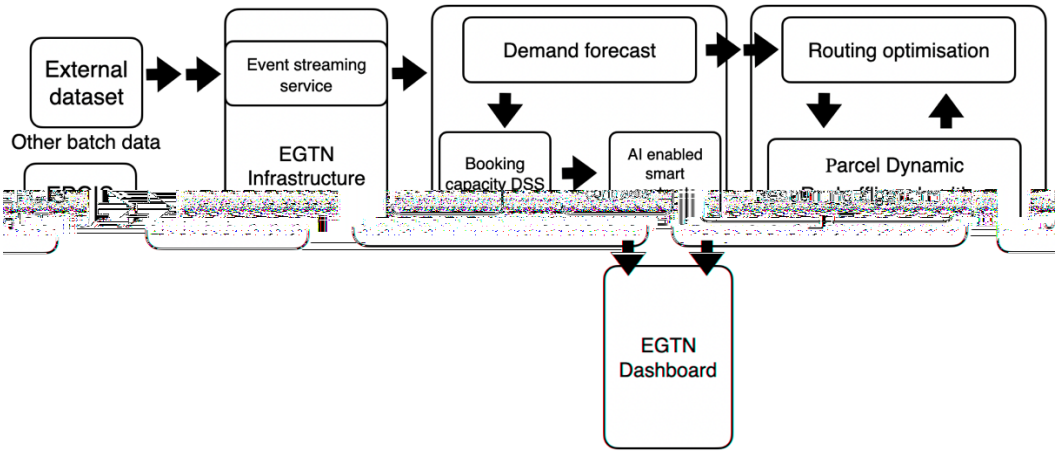

Figure 2: Example of interoperability of demand forecast service

Figure 2

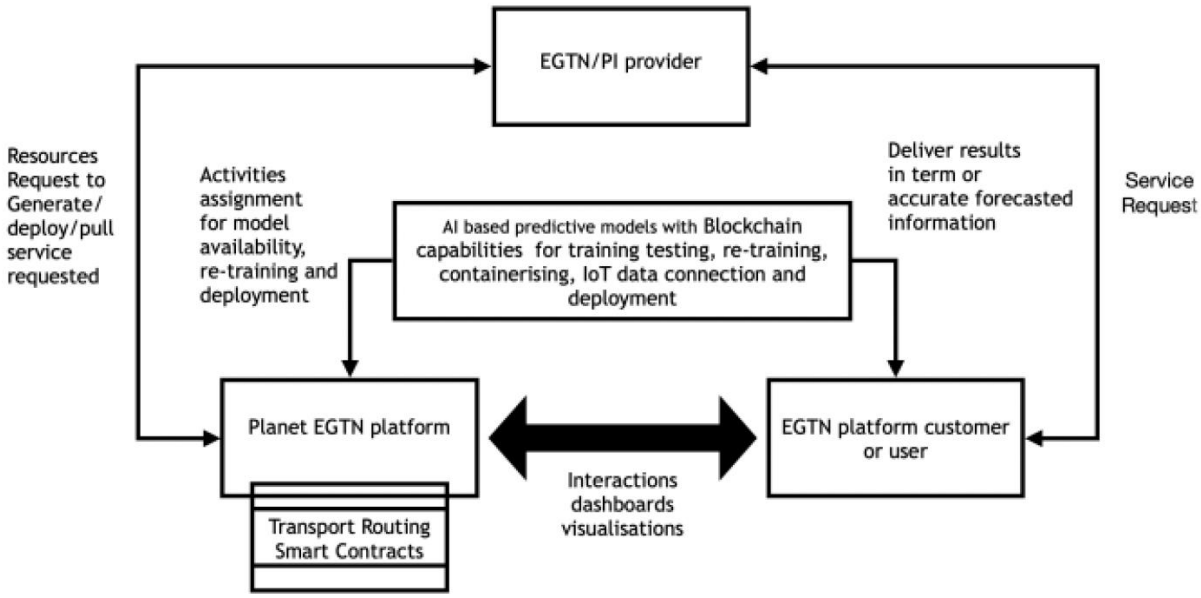

Figure 3: Value provided to business users and industry.

Figure 3

Deep learning is considered already to be one of the fundamental technologies underpinning the fourth industrial revolution.

Table 1

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Figure 4

Table 1

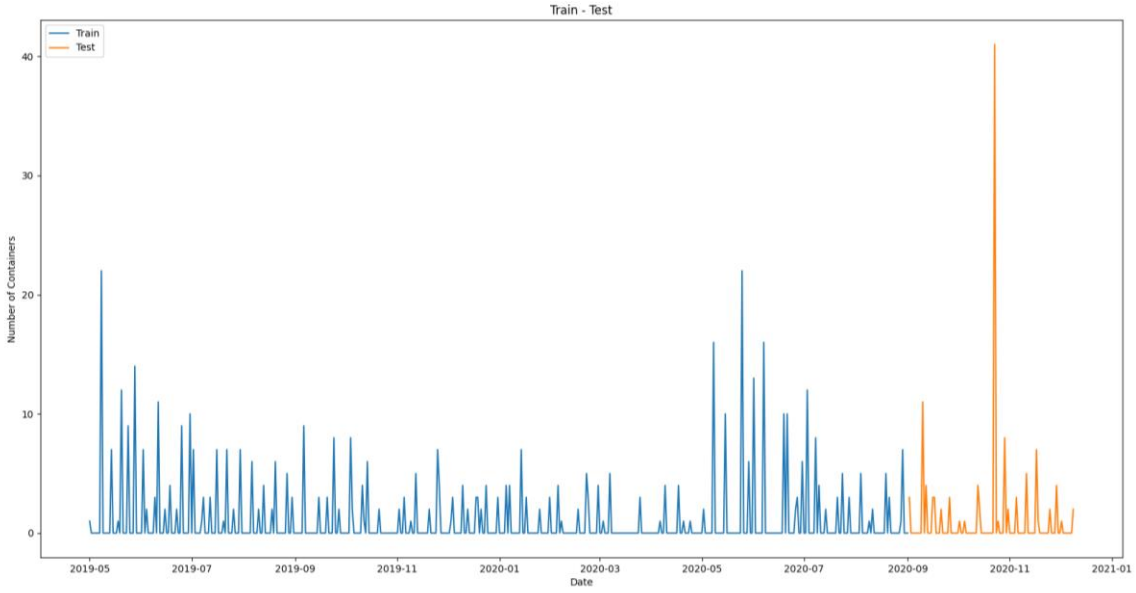

Figure 4: Train - Test

Figure 5

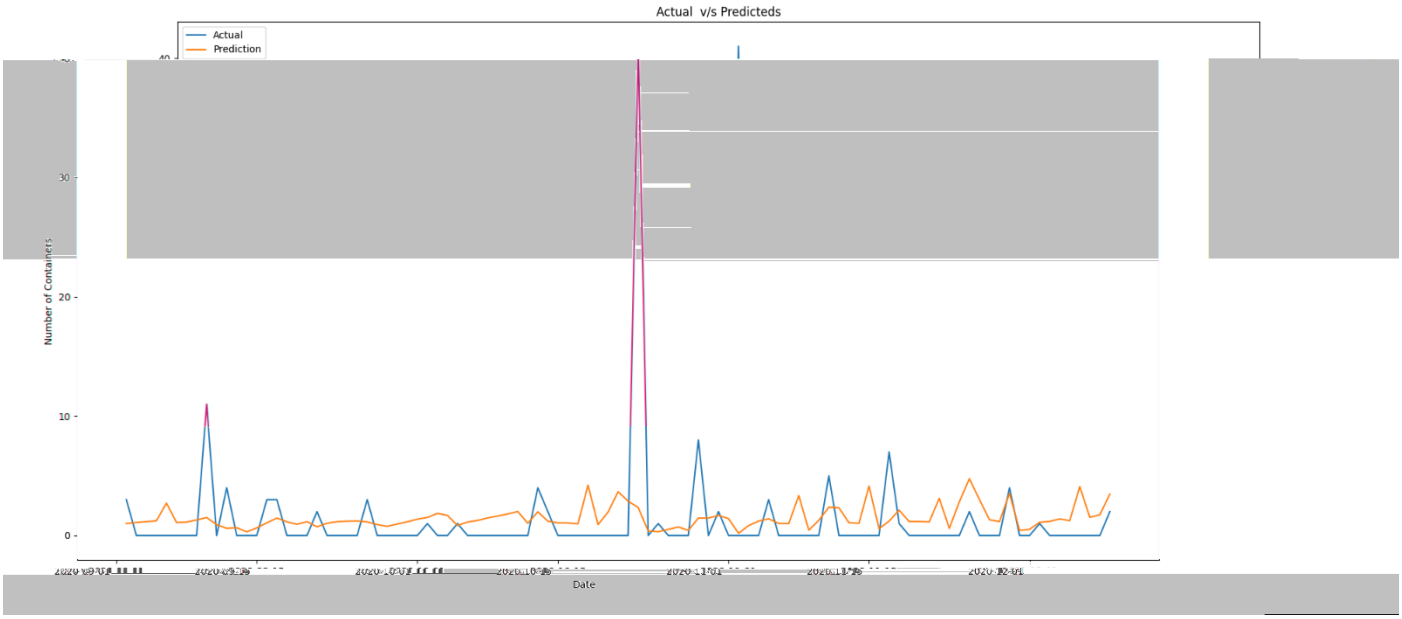

Figure 5: Actual vs Predicteds

Figure 6

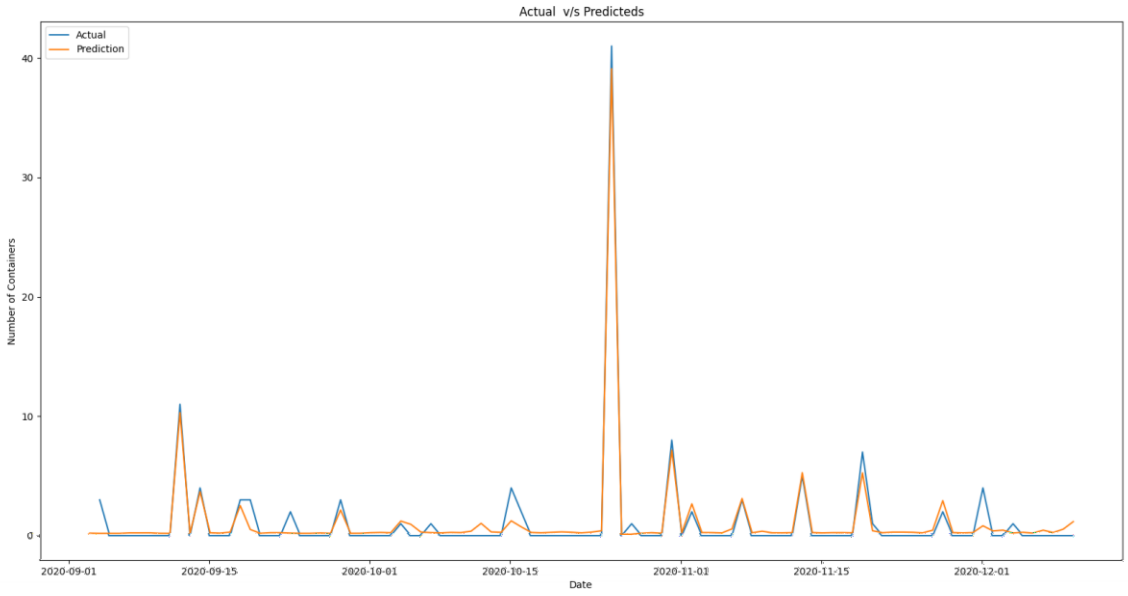

Figure 6: Actual vs Predicteds: Results for additional time spans

Table 1

A - [2019/05/01, 2020/09/01]	100	2.0665	38.6007	6.2129	0.5443
B - [2019/05/01, 2019/10/01]	100	1.0277	3.5512	1.8844	1.0493
C - [2019/05/01, 2020/01/01]	100	0.9219	3.446	1.8563	1.3181

Table 1. Results for additional training time spans

Conclusions

Table 1

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