UPGRADING TO A MLFF SINGLE GANTRY SOLUTION

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/ 01 Ascendi Overview



Business Areas



France – New international Free Flow operation: A69



Major European reference in MLFF/AET



2nd Largest Road
Concessionaire in Portugal



/ 01 Ascendi Overview – The MLFF



9 Ascendi started the

In 2009 Ascendi started the installation of 96 MLFF Toll Points with a 3 Gantry configuration

2009

MLFF installation in Portugal

After more that 10 years in

operation, Ascendi started the renewal of the 96 Toll points, replacing obsolete equipment by newer updated models

2020

Renovation of the MLFF system



During the renovation of the MLFF system, a challenge emerged: to install one Single Gantry MLFF



Instalation of one MLFF Single Gantry















January 2022

Pre-Requisites & Planning

January 2022

July 2022

December 2022

June 2023

Logistics

Installation,
Deployment &
Tunning

Technology Qualification

Go Live

- Use one produc
- No impact in open
- Radio system sł
- Technical cabine
- H&S aprovemer
- Provision of new Equipm cameras, controllers)
- Provision of new cables (communications)
 - Validation for electrical positions
 - Authorization & support for closure during the equipment installation

- Cabling installation on texisting production syst
- Equipment installation v closure (right lane + should lane)
- Specific adjustments &
- Statistical data collectio analysis
- Integration with OBO

- First period starting on 15.12.2022 and ending on 14.01.2023
- Second period starting on 01.03.2023 and ending on 31.03.2023
- Video verification audit

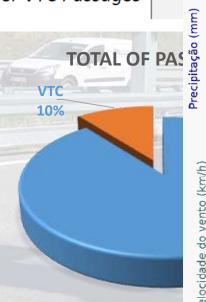


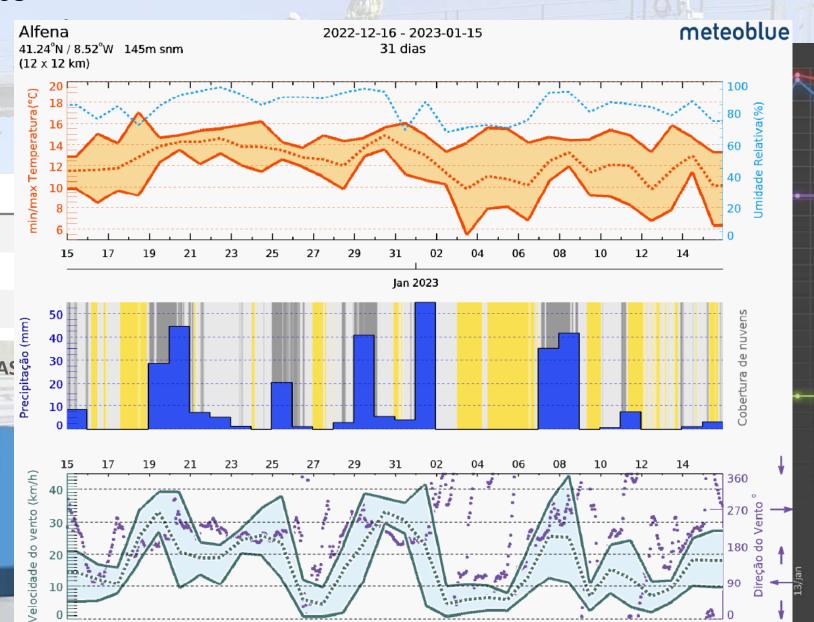


Technology Qualification

15.12.2022 to 14.01.2023

Number of Passages
Number ETC Passages
Number VTC Passages





KPI 03



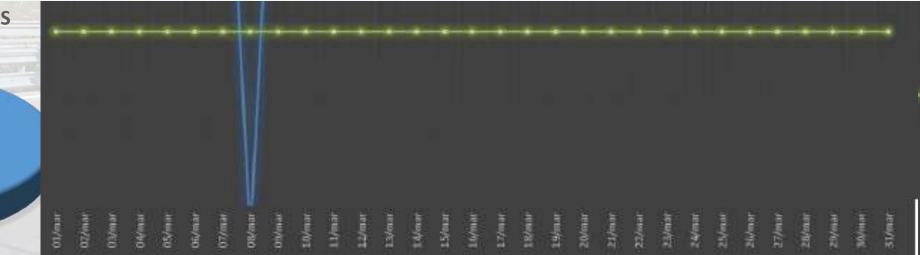
Technology Qualification

01.03.2023 to 31.03.2023

Number of Passages
Number ETC Passages
Number VTC Passages

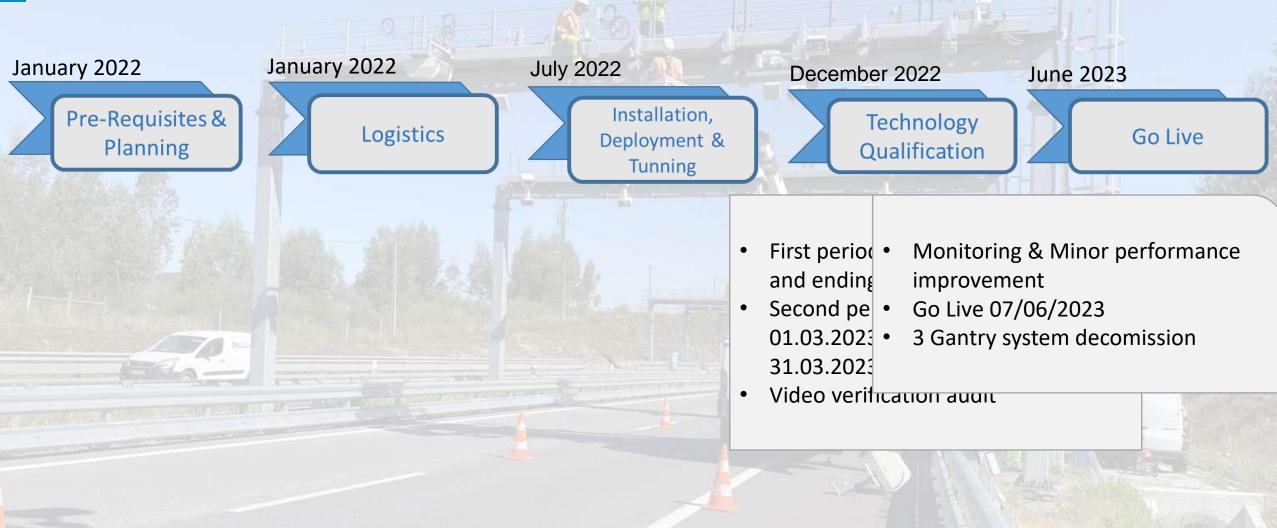
	SG System	Video Verification	Diff
07h30 - 09h30	2 393	2 393	0
11h30 - 13h30	1 490	1 490	0
15h00 - 17h00	2 262	2 262	0
18h00 - 20h00	3 580	3 580	0
TOTAL	9 725	9 725	0
03 05	07 09 11 13	15 17 19 21 23 25	27 29 31





4115 - 9999 - KPI - AVG



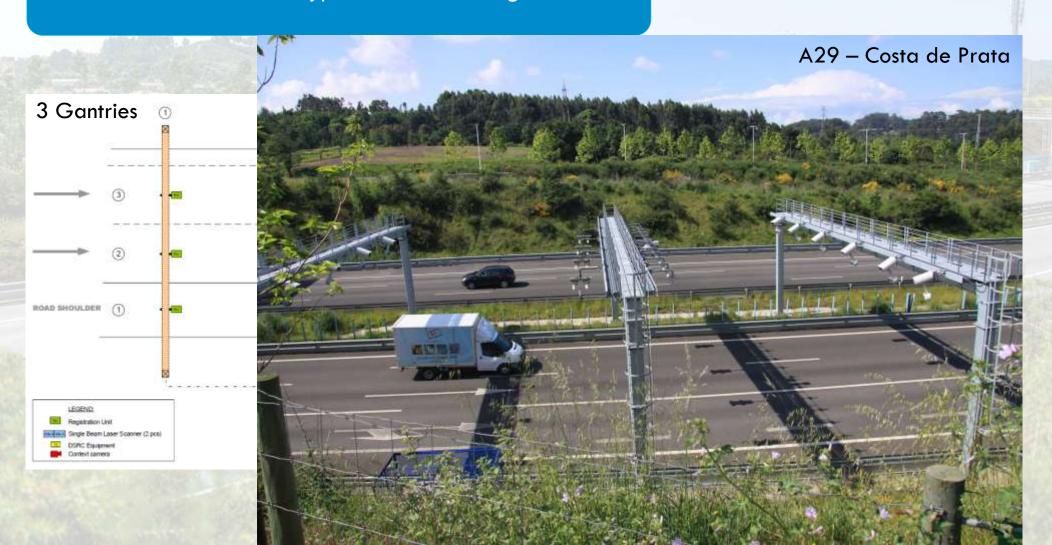








Ascendi has 3 types of MLFF design









Ascendi has 3 types of MLFF design





Gantry



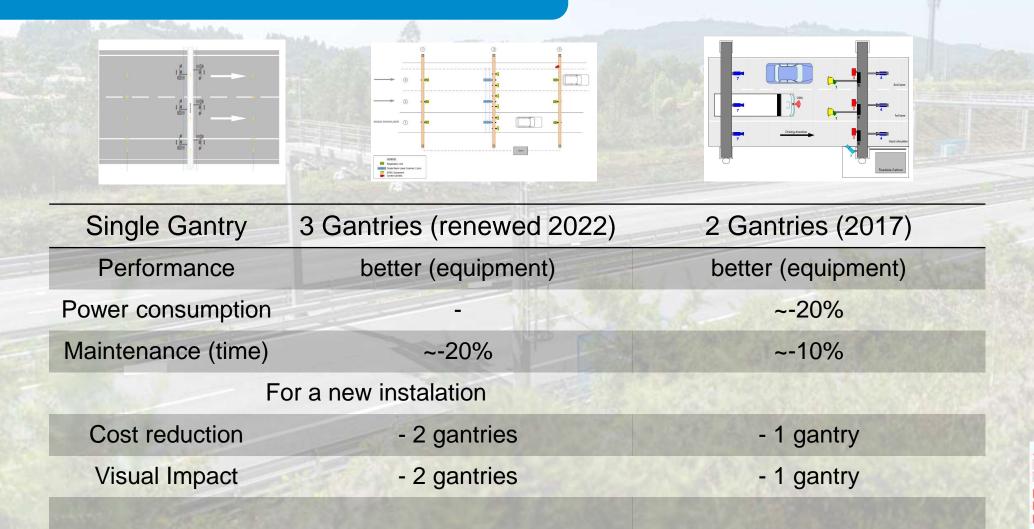
Ascendi has 3 types of MLFF design







Results: how do they compare one another?





/ 05 Conclusions







MLFF Single Gantry: Conclusions

/ A Single Gantry design is the suitable choice for a new installation (green field).

- / It has considerably less visual impact.
- / Maintenance times can be optimized.
- / Significant savings in implementation (civil works & gantries)
- / Performance will always depend on the solution.







"MANY OF THE THINGS THAT SEEM IMPOSSIBLE NOW WILL BECOME REALITIES TOMORROW." — WALT DISNEY

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