







➤ Real-time assignment of staff to equipment (unique optimisation algorithm)

➤ Dynamic geofencing according to the tasks assigned (based on GPS and EGNOS)

➤ Access control according to driver allowance and tasks assigned

 <div style="background-color: #e67e22; color: white; padding: 5px; border-radius: 10px; margin: 5px 0;">Safety</div> <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: white;"> <ul style="list-style-type: none"> Number of accidents and incidents reduced by 20-30 % Damage and repair costs down by 30-40 % Benefits from visualization, monitoring of alarms and logging of data </div>	 <div style="background-color: #e67e22; color: white; padding: 5px; border-radius: 10px; margin: 5px 0;">Cost Effectiveness</div> <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: white;"> <ul style="list-style-type: none"> Minimum fleet for 12 month amortization 66 GSE Internal rate of return 20 % Net present value 81.150 € Payback 2 ½ years Long-term benefits: Integration, A-SMGCS, monitoring, timestamps for automated billing </div>	 <div style="background-color: #e67e22; color: white; padding: 5px; border-radius: 10px; margin: 5px 0;">Recommendations</div> <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: white;"> <ul style="list-style-type: none"> Leveraging historical / logged data for safety improvements (training) Technological platform for A-SMGCS, A-CDM, TAM etc. Dynamic map display for drivers </div>
 <div style="background-color: #e67e22; color: white; padding: 5px; border-radius: 10px; margin: 5px 0;">Efficiency</div>	 <div style="background-color: #e67e22; color: white; padding: 5px; border-radius: 10px; margin: 5px 0;">Environmental Sustainability</div>	 <div style="background-color: #e67e22; color: white; padding: 5px; border-radius: 10px; margin: 5px 0;">Market Analysis / Case Study</div>
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">OPO</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">TXL</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">HUB</div> </div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Distances travelled reduced</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">1 %</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">7,5 %</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">15 %</div> </div>	<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">OPO</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">TXL</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">HUB</div> </div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Energy (fuel) consumption reduced</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">1 %</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">3,9 %</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">6 %</div> </div>	<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">OPO</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">TXL</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">HUB</div> </div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Operational cost reduction factor 4,8 %</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">2,8 %</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">4,8 %</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">9,6 %</div> </div>
<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Running hours reduced</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">1 %</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">3,9 %</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">6 %</div> </div>	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">CO2 reduced per year</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">1,4 t</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">12 t</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">18 t</div> </div>	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Fleet-wide amortization 18 months</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">50</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">18</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">< 8</div> </div>
<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Delays reduced</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">0 %</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">11,2 %</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">15 %</div> </div>	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">NO_x reduced per year</div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="background-color: #d7ccc8; padding: 5px; border-radius: 5px;">0,07 t</div> <div style="background-color: #f1c40f; padding: 5px; border-radius: 5px;">0,3 t</div> <div style="background-color: #27ae60; padding: 5px; border-radius: 5px;">0,45 t</div> </div>	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; background-color: white; margin-bottom: 5px;">Global fast-growth market up to 4,6% cumulative annual growth rate of market size</div>

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