# Exploitable Results by Third Parties

## 14041 ETS

### Project details

<table>
<thead>
<tr>
<th>Project leader</th>
<th>Duygu Kara</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email</td>
<td><a href="mailto:dkara@tmobtech.com">dkara@tmobtech.com</a></td>
</tr>
<tr>
<td>Website</td>
<td><a href="https://electronic-ticketing.org">https://electronic-ticketing.org</a></td>
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<tr>
<td></td>
<td><a href="https://itea3.org/project/ets.html">https://itea3.org/project/ets.html</a></td>
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<tr>
<td>Name:</td>
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<table>
<thead>
<tr>
<th>Input(s):</th>
<th>Main feature(s):</th>
<th>Output(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bring your own device in traveling at Public Transport</td>
<td>Every individual’s mobile phone, that uses the public transportation will be able to valid as a ticket for transportation.</td>
<td>Mobile Application</td>
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<table>
<thead>
<tr>
<th>Unique Selling Proposition(s):</th>
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</thead>
<tbody>
<tr>
<td>Paper / Card free usability</td>
<td></td>
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<tr>
<td>Can be adaptable to different cities / countries</td>
<td></td>
</tr>
<tr>
<td>Have high potential to be used internationally. One mobile app can replace all different type of public transportation ticketing.</td>
<td></td>
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<table>
<thead>
<tr>
<th>Integration constraint(s):</th>
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<tr>
<td>Need to be adaptable with the management system of the public transportation</td>
<td></td>
</tr>
<tr>
<td>Need to get approval of the municipalities</td>
<td></td>
</tr>
<tr>
<td>Requires strong security aspect</td>
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<tr>
<th>Intended user(s):</th>
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<tr>
<td>End-users will be public transportation users and municipalities that manages the public transportation infrastructure of the cities.</td>
<td></td>
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<tr>
<th>Provider:</th>
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<tbody>
<tr>
<td>TMOB</td>
<td></td>
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<tr>
<th>Condition(s) for reuse:</th>
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<tr>
<td>Licensing</td>
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Latest update: <19.03.2019>
### Name: Data Analytics Algorithms

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<th>Input(s):</th>
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<tbody>
<tr>
<td>Data: Passenger data; Routes data, Stations data, Passengers Positions data..... As many data as possible the better</td>
<td>Any enterprise with large data pools needing to optimize and extract knowledge from them.</td>
<td>An <strong>answer</strong> to a business question</td>
</tr>
</tbody>
</table>

**Unique Selling Proposition(s):**
- The advantage of our approach is the PRICE and CUSTOMIZATION.
- Have high potential to be used internationally.
- It is a web/cloud solution accessible to all; can be used by any enterprise of any type/size.

**Integration constraint(s):**
- As integration is done with Web services, web services need to be at the two ends, this is, the data analytics module sends a web service that has to have correlation at the other end in order to be able to work.
- Requires to have a pool of data large enough for analysis to make sense

**Intended user(s):**
- End-users will be public and private transportation authorities, operators and service suppliers, managing transportation infrastructure, but can also be any other enterprise type needing data optimization

**Provider:**
- IDI EIKON

**Contact point:**
- Miguel Alborg: malborg@idieikon.com

**Condition(s) for reuse:**
- Licensing

*Latest update: <19.03.2019>
<table>
<thead>
<tr>
<th>Input(s):</th>
<th>Main feature(s)</th>
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<tr>
<td>▪ Securing citizens' safety when using public transportation</td>
<td>▪ Face recognition system can detect irregulars and terrorists. ▪ People counting system allows you to identify the floating population.</td>
<td>▪ Face Recognition, People Counting</td>
</tr>
</tbody>
</table>

**Unique Selling Proposition(s):**
- Convenience of access to subway gate
- Can be adaptable to different cities / countries
- Detect terrorists and unauthorized passengers

**Integration constraint(s):**
- Need to be adaptable with the management system of the public transportation
- Need to get approval of the municipalities
- Requires strong security aspect

**Intended user(s):**
- End-users will be public transportation users and municipalities that manages the public transportation infrastructure of the cities

**Provider:**
- DTS

**Contact point:**
- Kyung, KyuHo kkh@datnogsol.com

**Condition(s) for reuse:**
- Licensing

*Latest update:*
### Reporting Module

#### Input(s):
- **Local & Central System**
  - Beacon receivers
  - Registered Mobile apps
  - Beacon cards

#### Main feature(s):
- **Data simulator** - The module is used to generate data, by simulating a real situation of passenger using ETS system.
- **Data Transfer** - The module is used to move data from Cassandra to MS SQL and from MS SQL to Cassandra.
- **Data Analyzer for SQL/NoSQL Database** - The module is used to create analysis on data stored in MSSQL/NoSQL Database.
- **Data Reporting** - Create reports and charts on operational data.
- **API (RS Services)** - The module is used to expose functionalities

#### Output(s):
- Reports
- Charts
- Status
- Alerts
- Predictions

#### Unique Selling Proposition(s):
- Offers customers a technological and simplified ticketing solution
- Real time infrastructure occupation and traffic usage measurements
- Better Predictions = Better Services for your clients

#### Integration constraint(s):
- API (RS Services) to expose functionalities for getting data presented in reports or analysis to external applications via Restful services.
- Customizations for each operator based on its infrastructure
- Needs to get access to municipalities data

#### Intended user(s):
- Public Transport Operators
- Local/Central municipalities that manages the public transportation infrastructure of the cities
- Tourism (museums, event organizers)

#### Provider:
- SIVECO Romania

#### Contact point:
- Monica Florea | monica.florea@siveco.ro

#### Condition(s) for reuse:
- Licensing

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**Latest update:**
# Loyalty System

## Name: Loyalty System

<table>
<thead>
<tr>
<th>Input(s):</th>
<th>Main feature(s)</th>
<th>Output(s):</th>
</tr>
</thead>
</table>
| ▪ Customers Details  
  ▪ Customer Transactions  
  ▪ Cards issued | FULL CUSTOMER INSIGHT  
  ▪ Quick enrollment  
  ▪ Full management of customer data  
  ▪ Detailed transaction history  
  ▪ Dynamic segmentation  
  ▪ Flexible account hierarchy  
  ▪ Profile data update  
  ▪ Points balance check  
  INTELLIGENT LOYALTY MECHANISM  
  ▪ Flexible customer segmentation  
  ▪ Flexible definition of earning and redeeming points schemas  
  ▪ Event-triggered action  
  ▪ Different compensation points for separate customer segments and statuses  
  ▪ Real-time points redemption  
  ▪ Real-time processing of all transactions  
  ▪ Secured access to personal data  
  ADVANCED REPORTING & ADMINISTRATION  
  ▪ Manual correction of points  
  ▪ Black-lists administration  
  ▪ Dynamic dashboards  
  ▪ Report templates and different formats  
  ▪ One-time and periodical report generation  
  ▪ Notifications of reports availability | ▪ Loyalty Program Definition  
  ▪ Loyalty Point Balance Status  
  ▪ Alerts  
  ▪ Reports |

## Unique Selling Proposition(s):
- Provide a full range of high-quality features to run and manage advanced loyalty programs of various scales
- Collect structured customer data
- Get to know your customers
- Reach you customers
- Gain your customer’s trust

## Integration constraint(s):
- Web services integration layer
- Customizations for each operator based on its infrastructure
- Needs to get access to municipalities data
**Name:** Loyalty System

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<tr>
<th>Intended user(s):</th>
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<td></td>
<td>Tourism (museums, event organizers)</td>
</tr>
<tr>
<td><strong>Provider:</strong></td>
<td>CONVEX NETWORK</td>
</tr>
<tr>
<td><strong>Contact point:</strong></td>
<td>Cristian Pielescu</td>
</tr>
<tr>
<td><strong>Condition(s) for reuse:</strong></td>
<td>Licensing</td>
</tr>
</tbody>
</table>

*Latest update:*