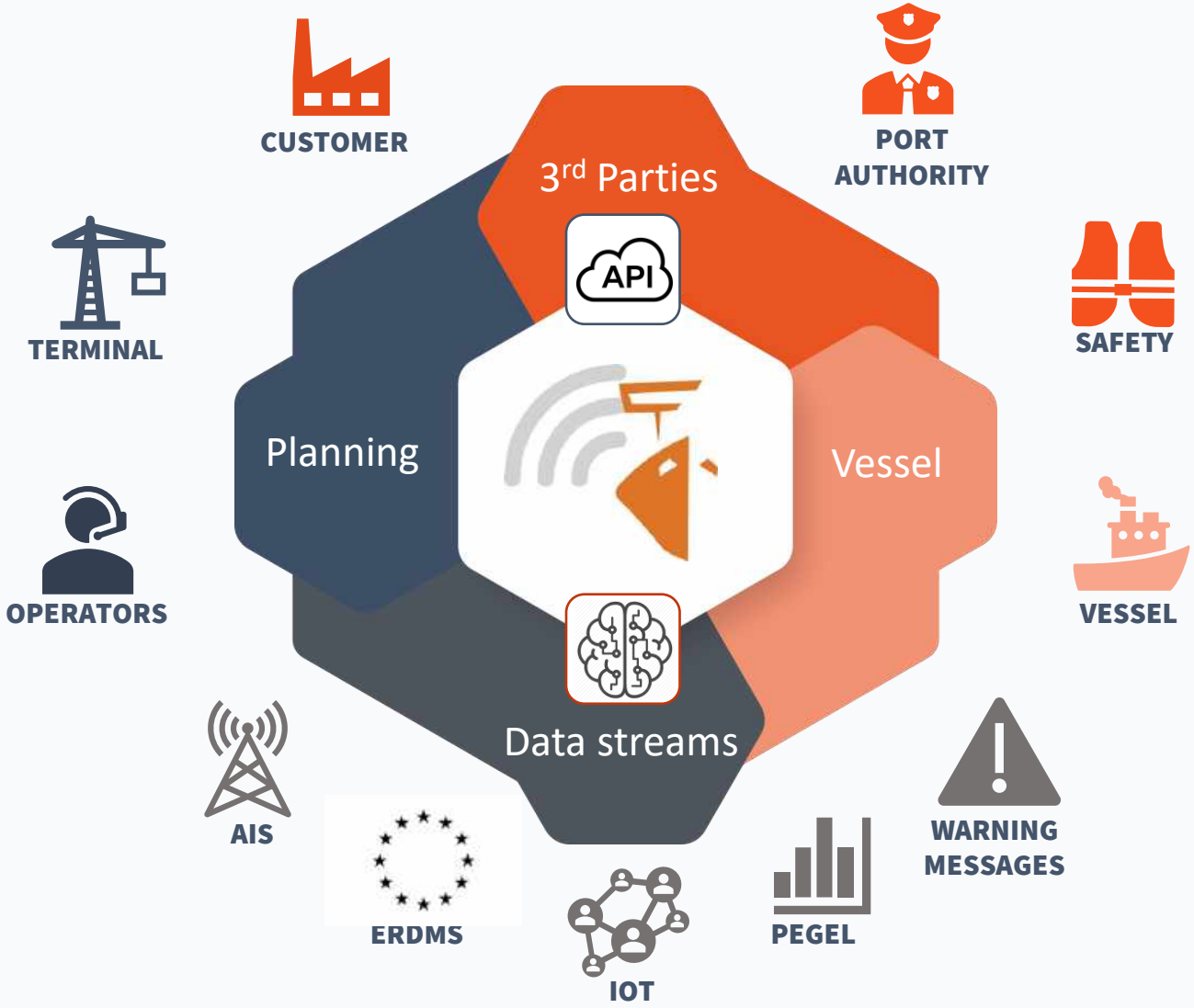
VEMASYS

Ecosystem

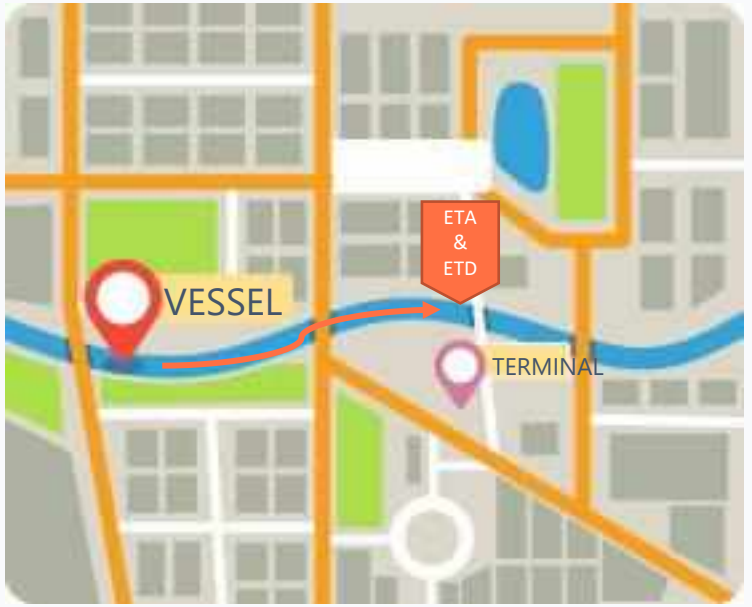

CUSTOMER
PORT AUTHORITY
3rd Parties
API
TERMINAL
SAFETY
Planning
Vessel
OPERATORS
VESSEL
Data streams
AIS
WARNING MESSAGES
ERDMS
PEGEL
IOT

How does the A.I. work?

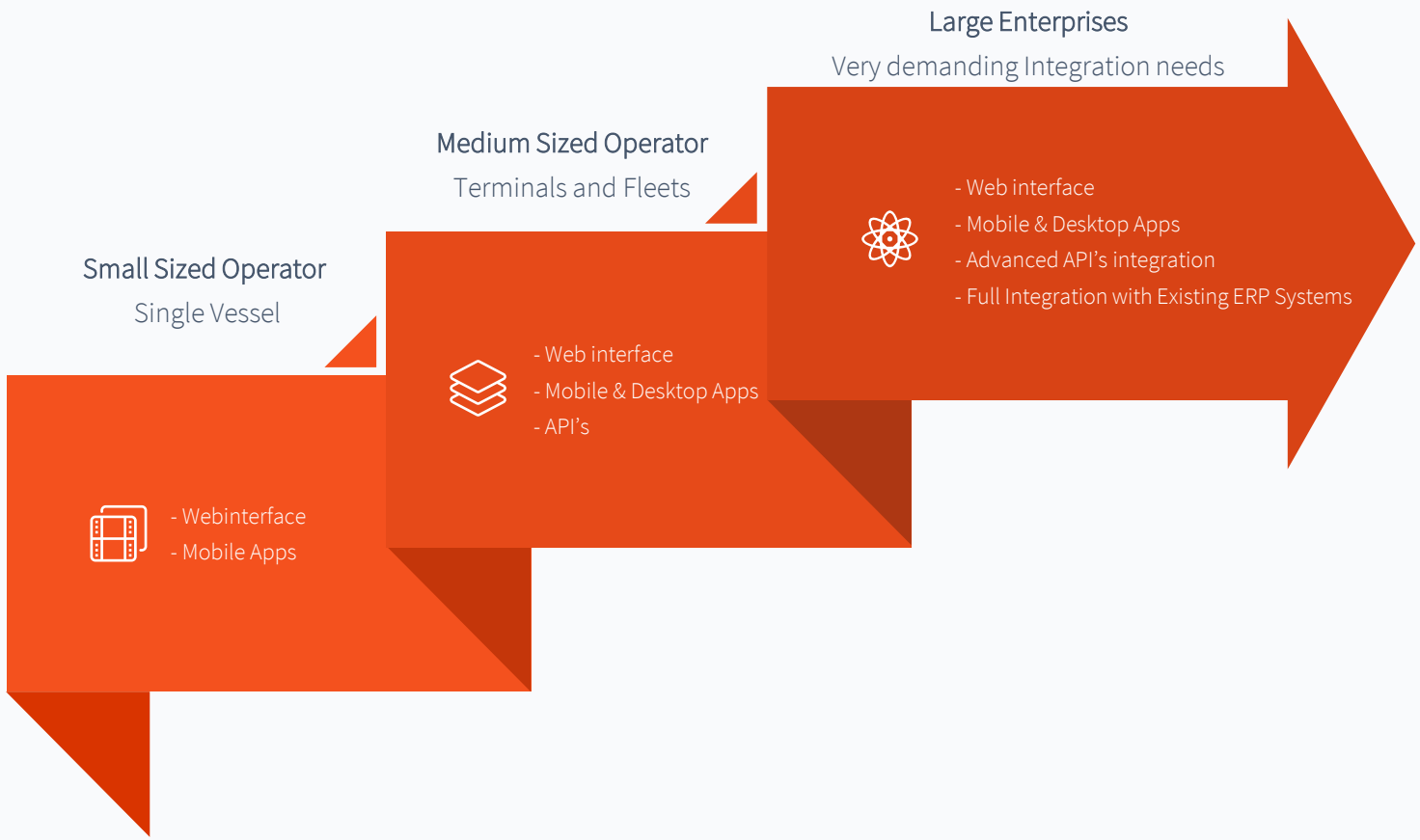
ENRICHED WITH REALTIME CONGESTION, WAITING TIMES ETC…

BIG DATA OF ALL ROUTES
Based on anonymized data

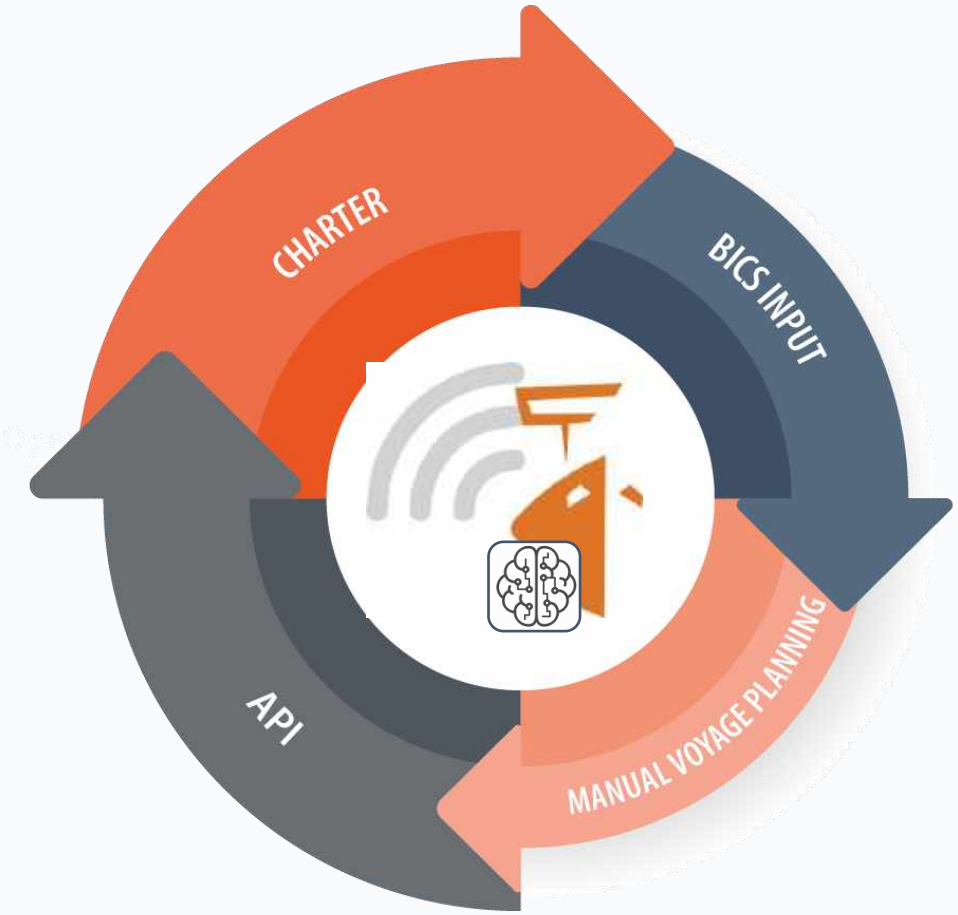
CONSTANTLY COMPARED WITH PLANNING OF THE STAKEHOLDERS



Maturity Level Adaptation & API’s

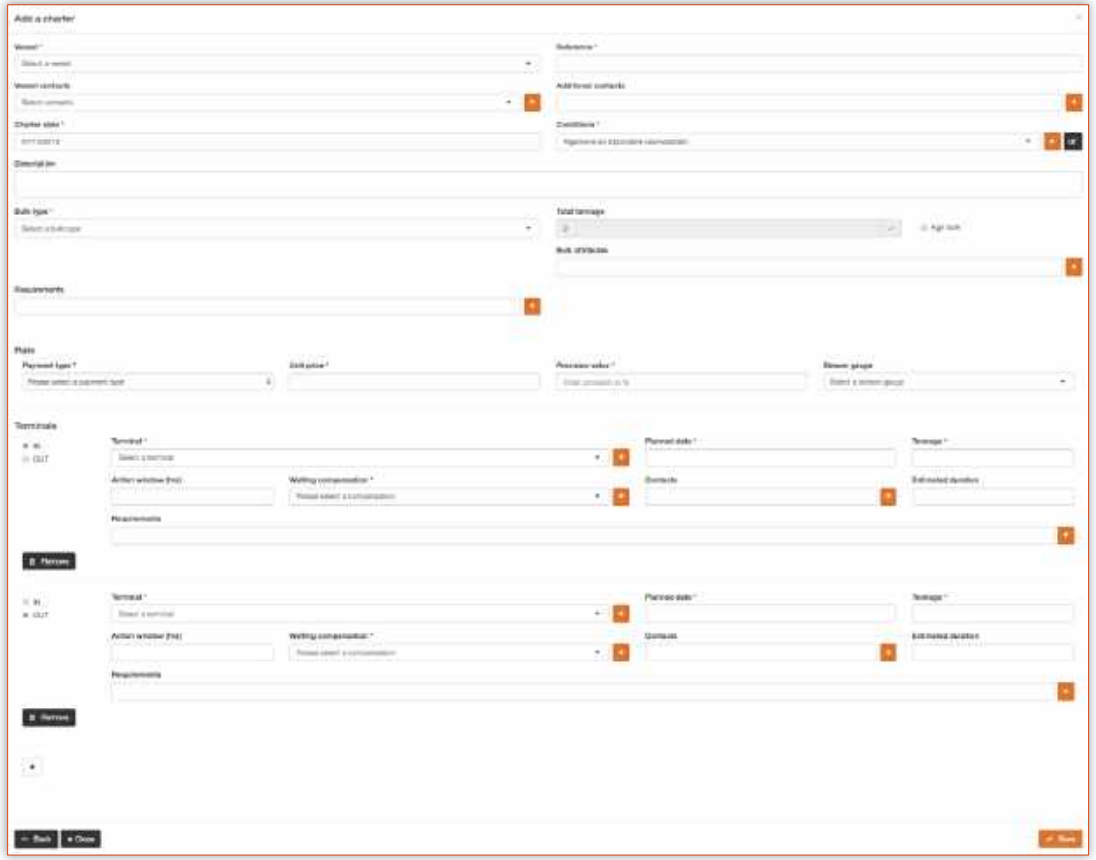


Barge Operator / Agent



- Smart Contracting for Charter
- Support for bulk inputs format and API
- Run simulation on voyage and planning
- Follow-up on voyage progress
- Share Track & Trace with end-customer
- Collect all required documents
- KPI’s and advanced reporting

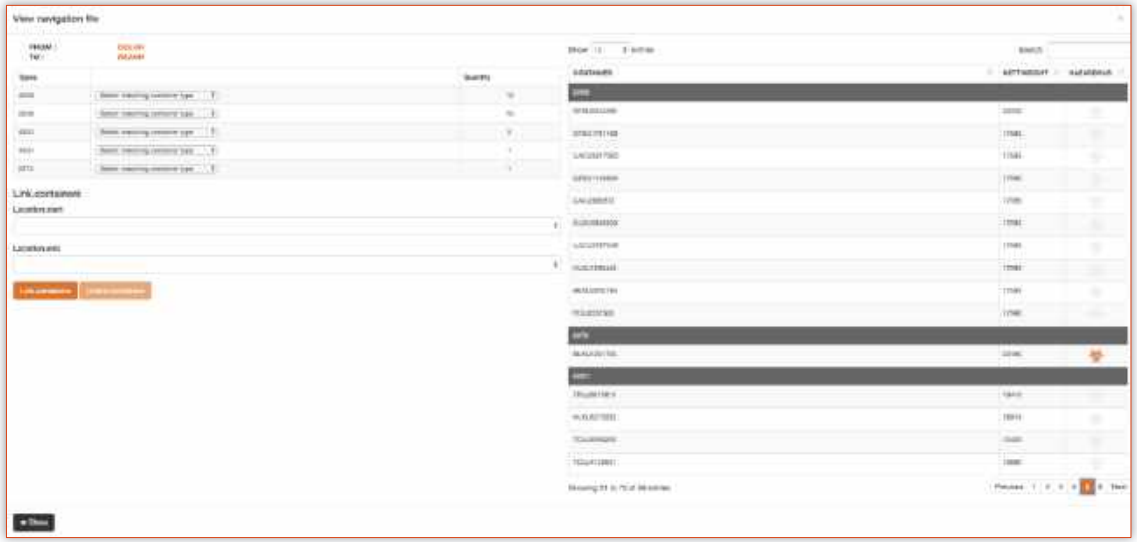
Barge Operator/Agent



Smart Contracting for Charter

- Actual arrival time / demurrage is recorded
- ‘Pegel’ level (on departure) is recorded

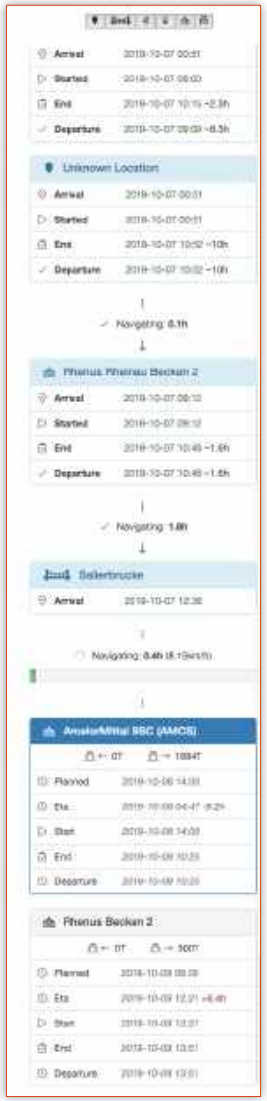
Barge Operator/Agent



Support for bulk input formats and API

- Support for various types of import formats like BICS, XML, …
- Translates into standard planning objects and transactions

Barge Operator/Agent

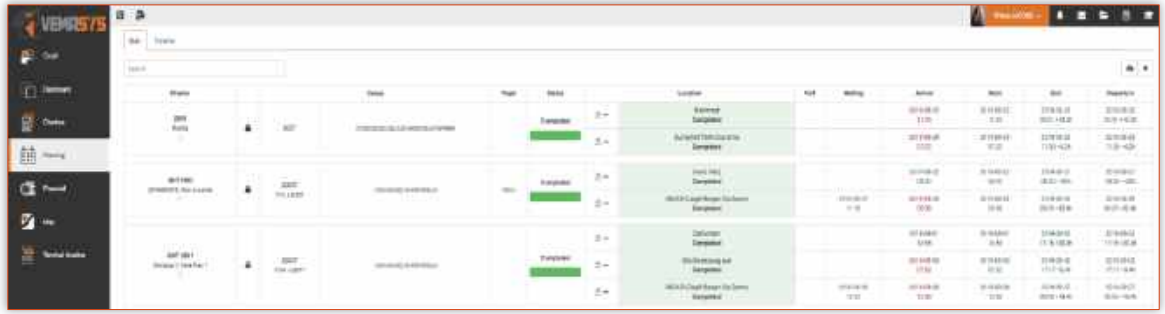


Run Simulation on voyage and planning

- Feasibility is calculated.
  Keeping into account waiting times at locks, terminals and average vessel speeds on that trajectory as well as the current operation mode of the vessel (A1, A2, B).

- Trajectories are calculated based upon anonymized big data.
  Each checkpoint, bridge, lock, junction, … has its own set of parameters

Barge Operator/Agent

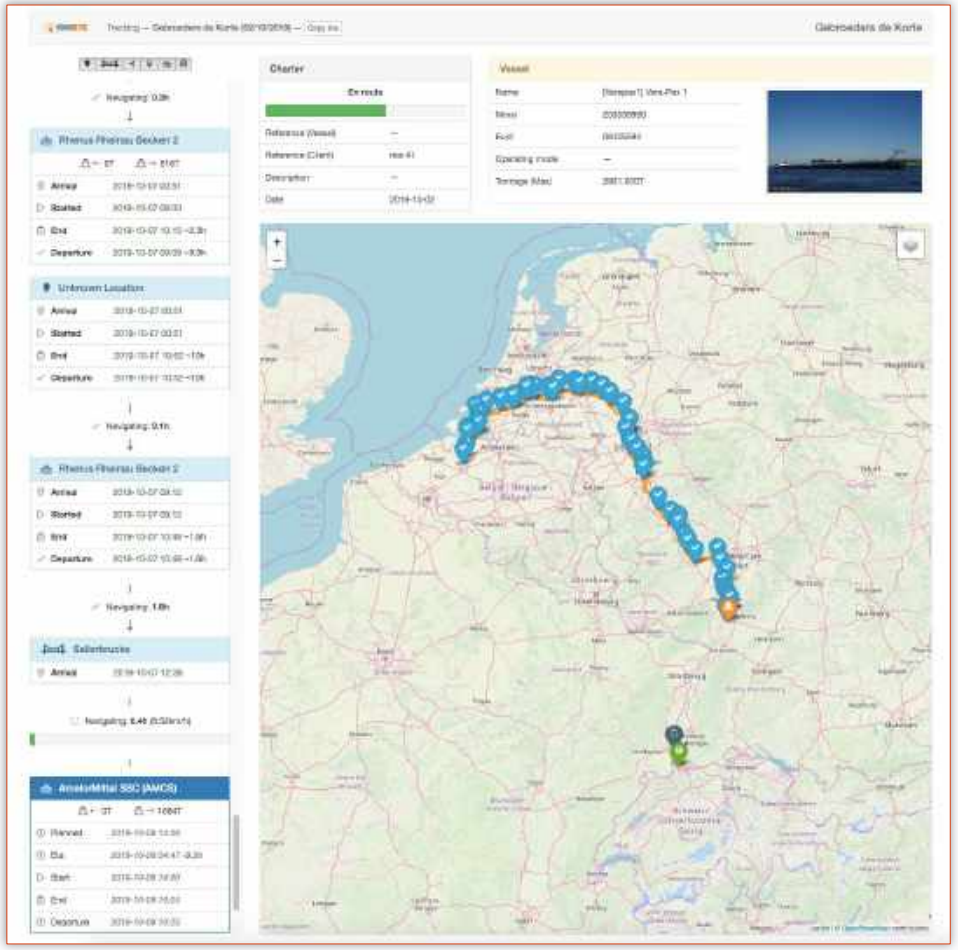


Follow-up on voyage progress

- Upon creation of a charter, feasibility is calculated. Every 60 seconds the data are processed again and ETA's updated. Generating notifications if the change threatens to have an operational impact

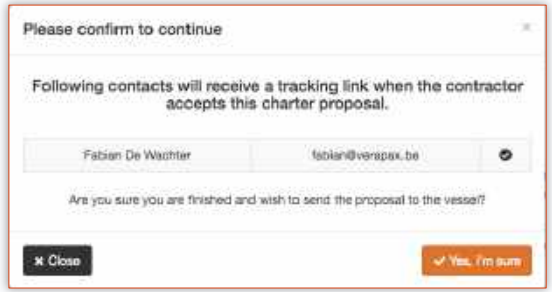
- An overview of all charters / Voyages is available in real-time, including updates when vessels arrive / leave / are delayed etc. The overview also show uploaded required documents like loading certificate, cleaning, container stow plan etc …

Barge Operator/Agent

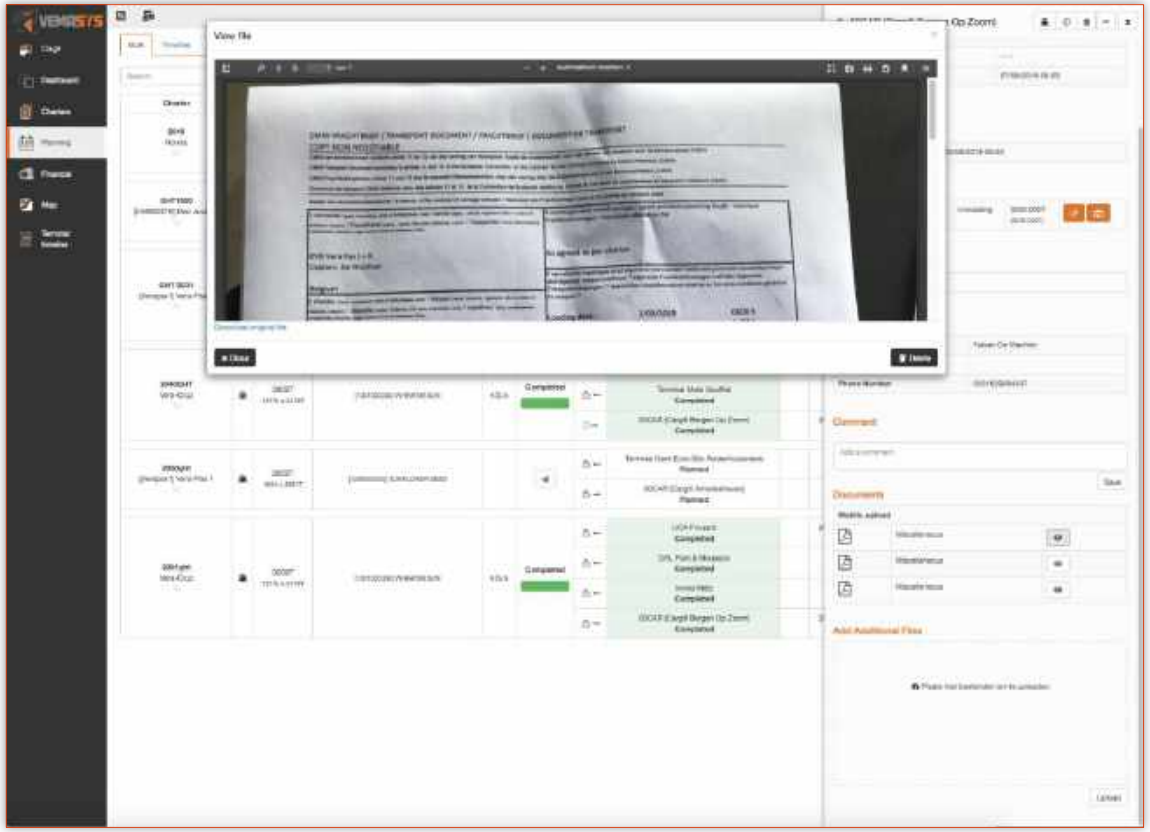


Share track & trace with end-customer

- A unique track & trace code can be generated and shared with 3rd parties like end-customer so they can follow the vessel progress and ETA's



Barge Operator/Agent

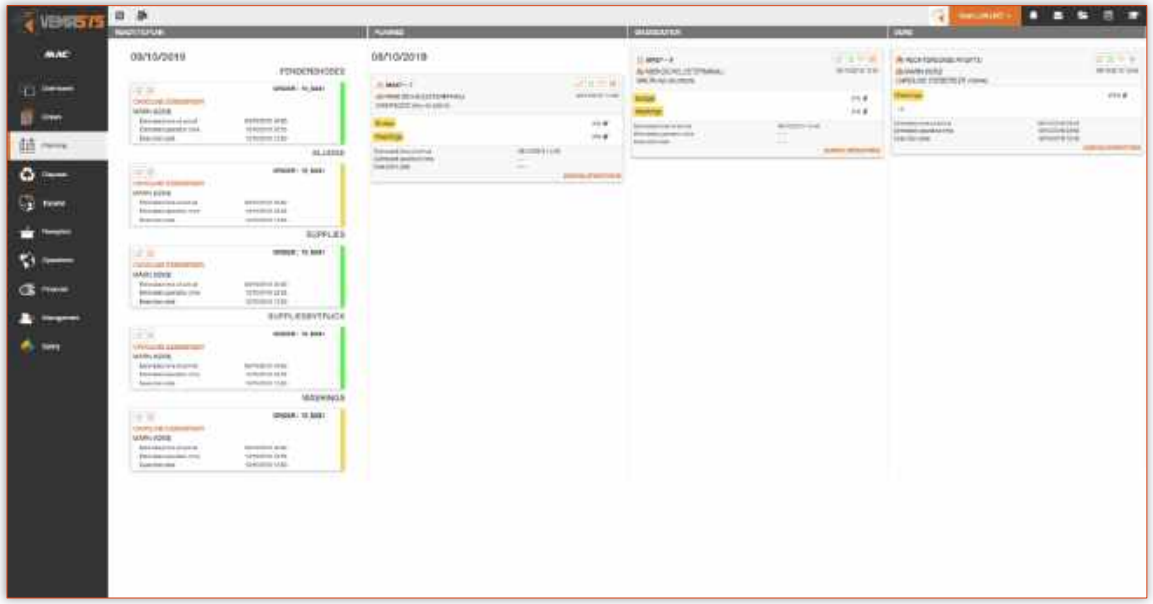


Collect and generate documents

- Documents and checklists can be uploaded or filled in (and signed digitally) online. And are available for the operator/terminal in real-time

- In case of dual signature (vessel and terminal) a unique signature link can be sent to a 3rd party (if not already connected to VEMASYS) to obtains a second signature.

Barge Operator/Agent



Dashboards, KPI’s and reporting

- A wide variety of standard and custom reports can be generated right from the platform, including excel export files.
- For advanced, custom reports, the data can be accessed via an API for BI reporting.
- Various dashboard views (like Kanban, timeline) are standard available.

Vessel

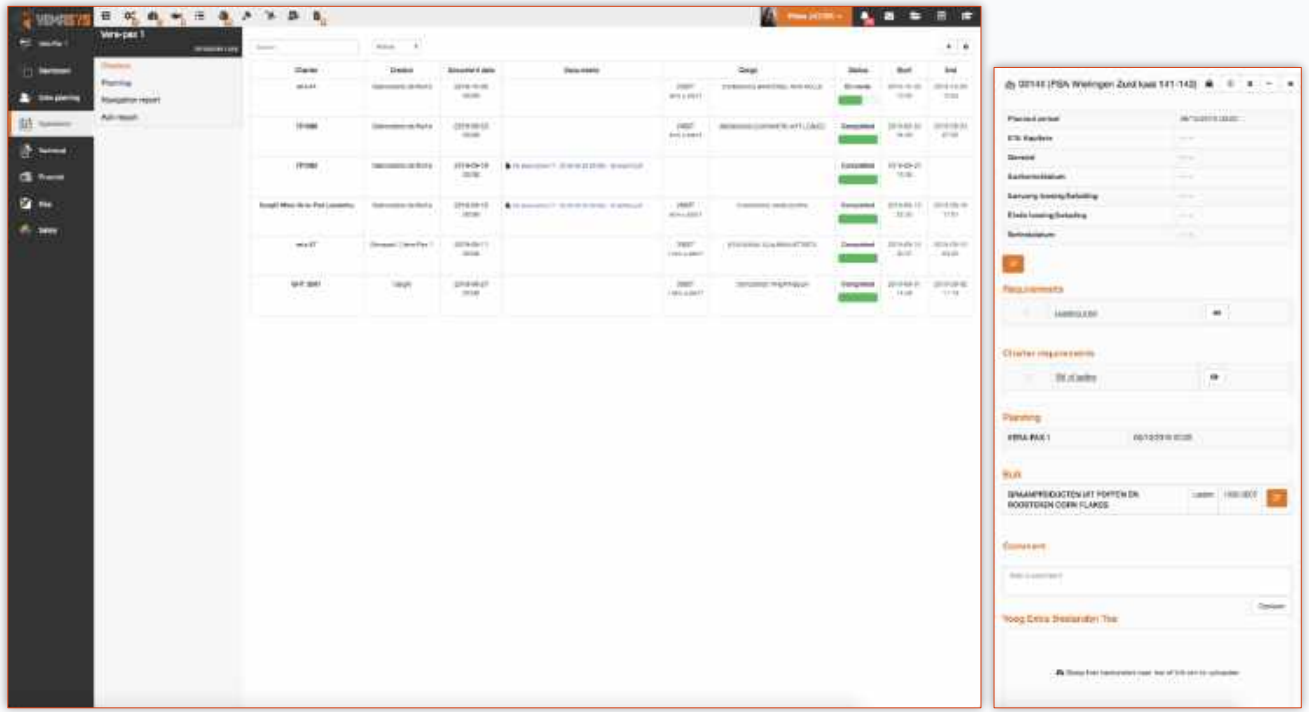
- Charter document requirements
- Planning overview with ETA’s
- Terminal information and route planner
- Digital logbook
- Certificates, E.B.I.S., Technical maintenance
- Convenient iOS and Android app

Vessel

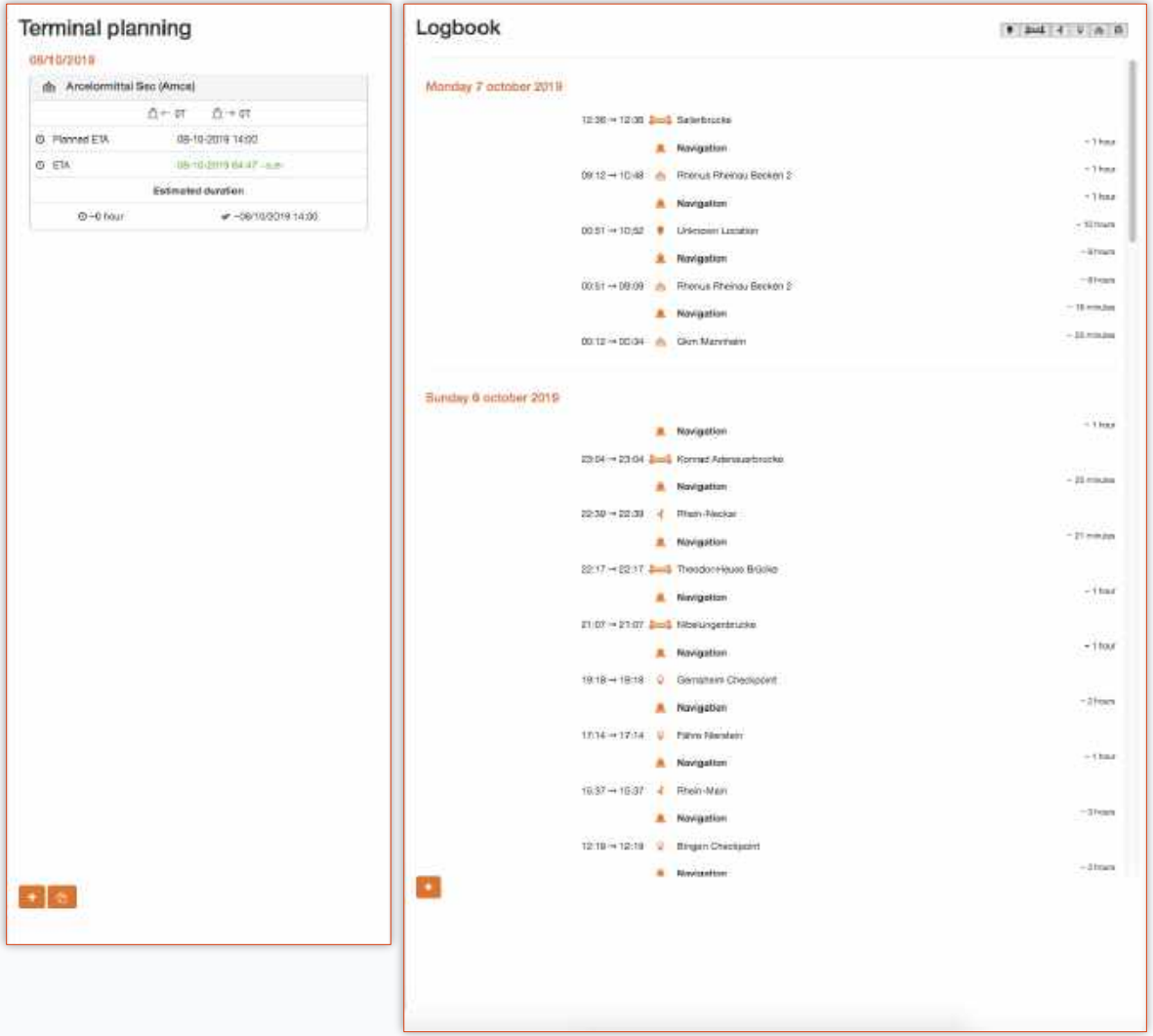
Charter & document requirements

- Where possible digital forms with signature

  Otherwise a pdf upload (or via the app)



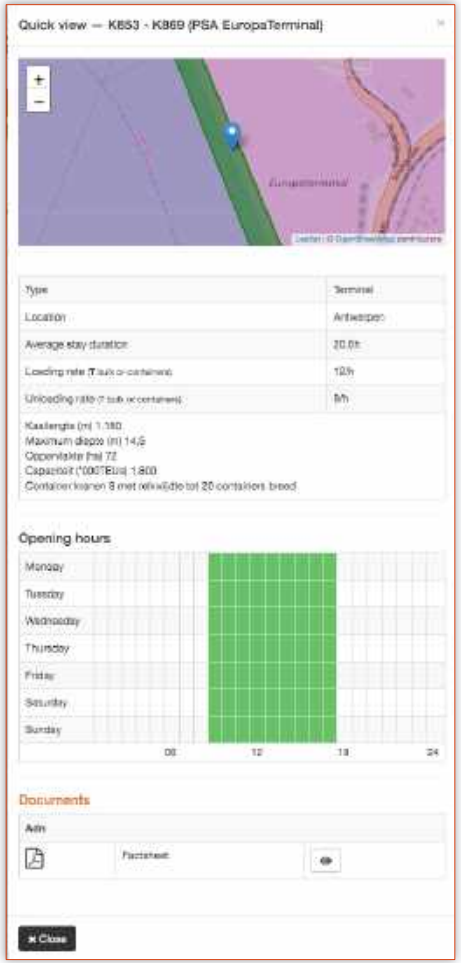
Vessel

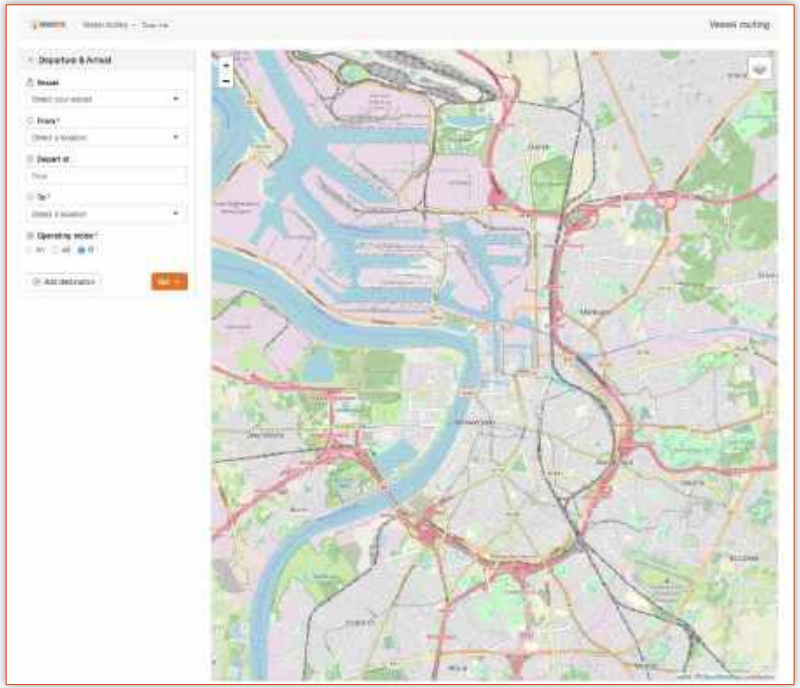


Planning overview with ETA’s and logbook

- Logbook is auto filled based on geo-fencing
- Planning shows real-time ETA and updates

Vessel

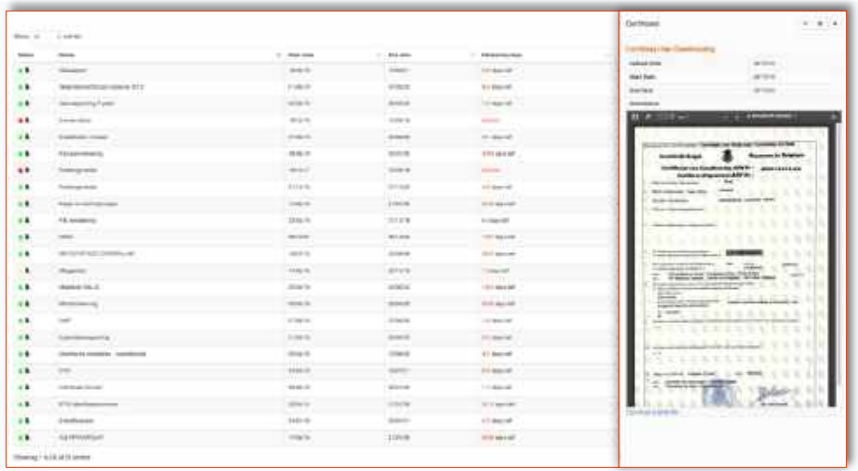


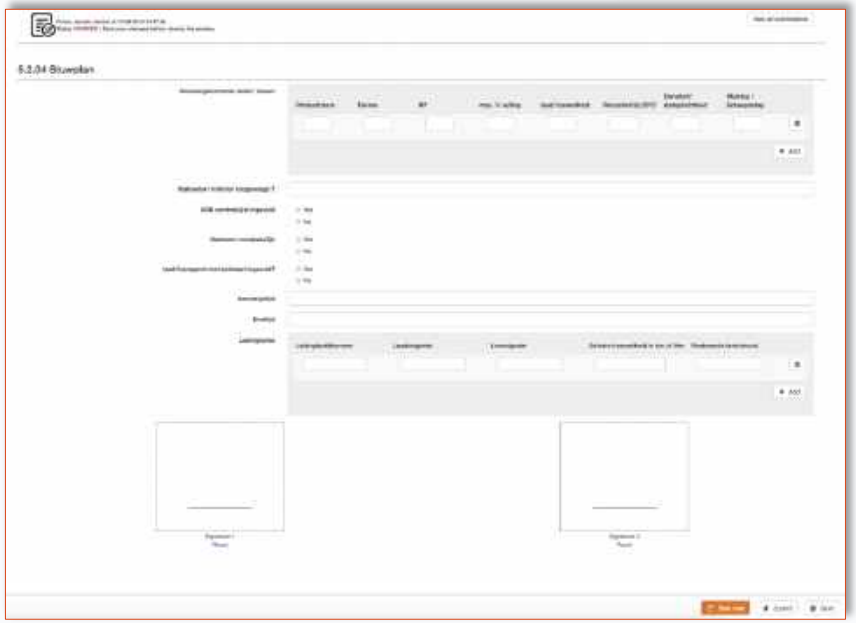


Terminal information and route planner

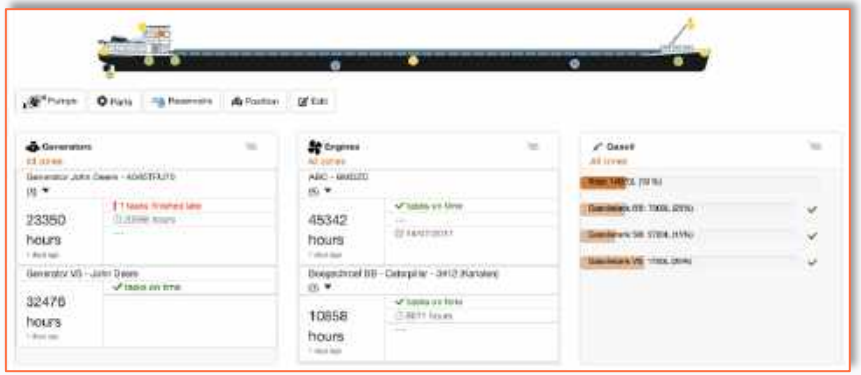
- Opening hours and info of terminal
- Route planner (for that type of vessel)
- ETA and ETD prediction for all stops

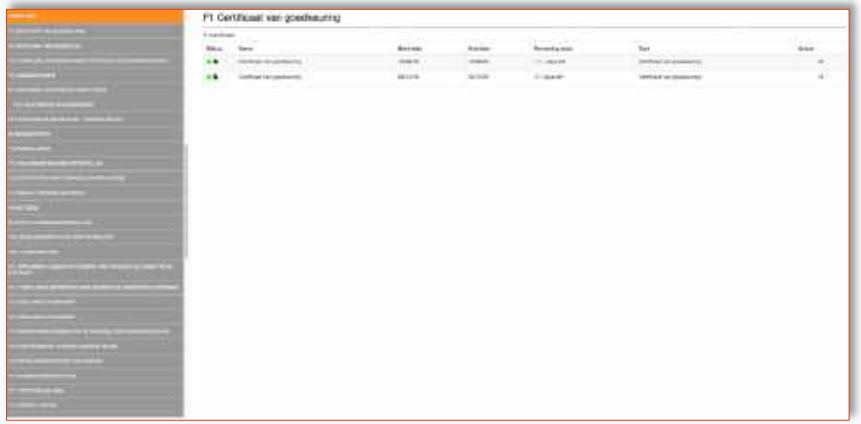
Vessel



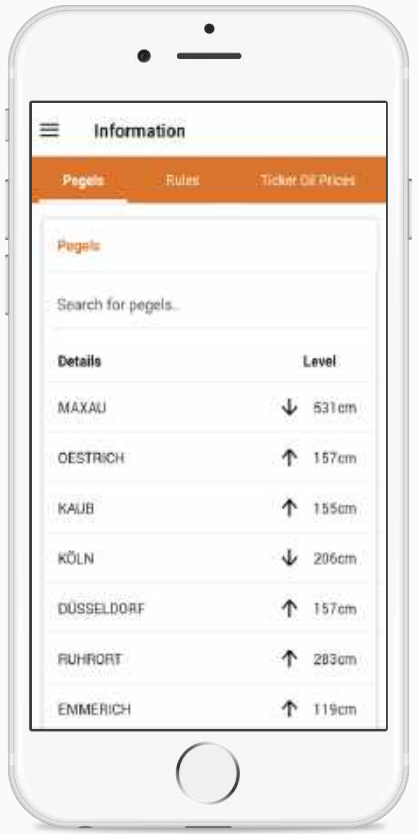


Certificates, EBIS and technical





iOS and Android app



Thank you

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Tony Ameryckx