

# Periskal 2017



# Overview

- Introduction of Periskal
- ENC chart production
- On board solutions
- Traffic Information via AIS

# Periskal at a glance

- Software company, head office Belgium, sister companies in Rumania and the Netherlands, more than 20 employees
- Daughter company Noordersoft bv active in Inland Shipping and pleasure craft market with PC-Navigo
- Since 1990, focus on Inland ECDIS systems and RIS technology, more than 9000 inland barges in Europe using it, +/- 15000 ships using Inland ECDIS from Periskal in Europe.
- Via daughter company Chartworx active in Fishing and workboats, about 2000 fishing vessels mainly in Europe using it in daily business. Type approved Periskal ECDIS for Solas vessels.

- Main products/core business:
  - Inland ECDIS Viewer and Periskal Radar Overlay from Periskal (Inland ECDIS information and navigation Modus)
  - PC –Navigo from Noordersoft (Inland ECDIS information Modus)
  - Application for Fishing vessels and workboats, including E-logbooks, brands QuadFish/TheMap and Trax
  - Software components for River Information Services like Inland ECDIS, Notice to Skipper, Electronic Reporting and Track and Trace
  - Hardware components & complete AIS Base Stations networks as been installed in Belgium, Bulgaria, Serbia, France, Poland and India.
  - Inland ECDIS Chart production for Belgium, Poland, Italy etc...
- Certified:
  - DNV ISO 9001 -2015 and DNV ISO 14001-2015

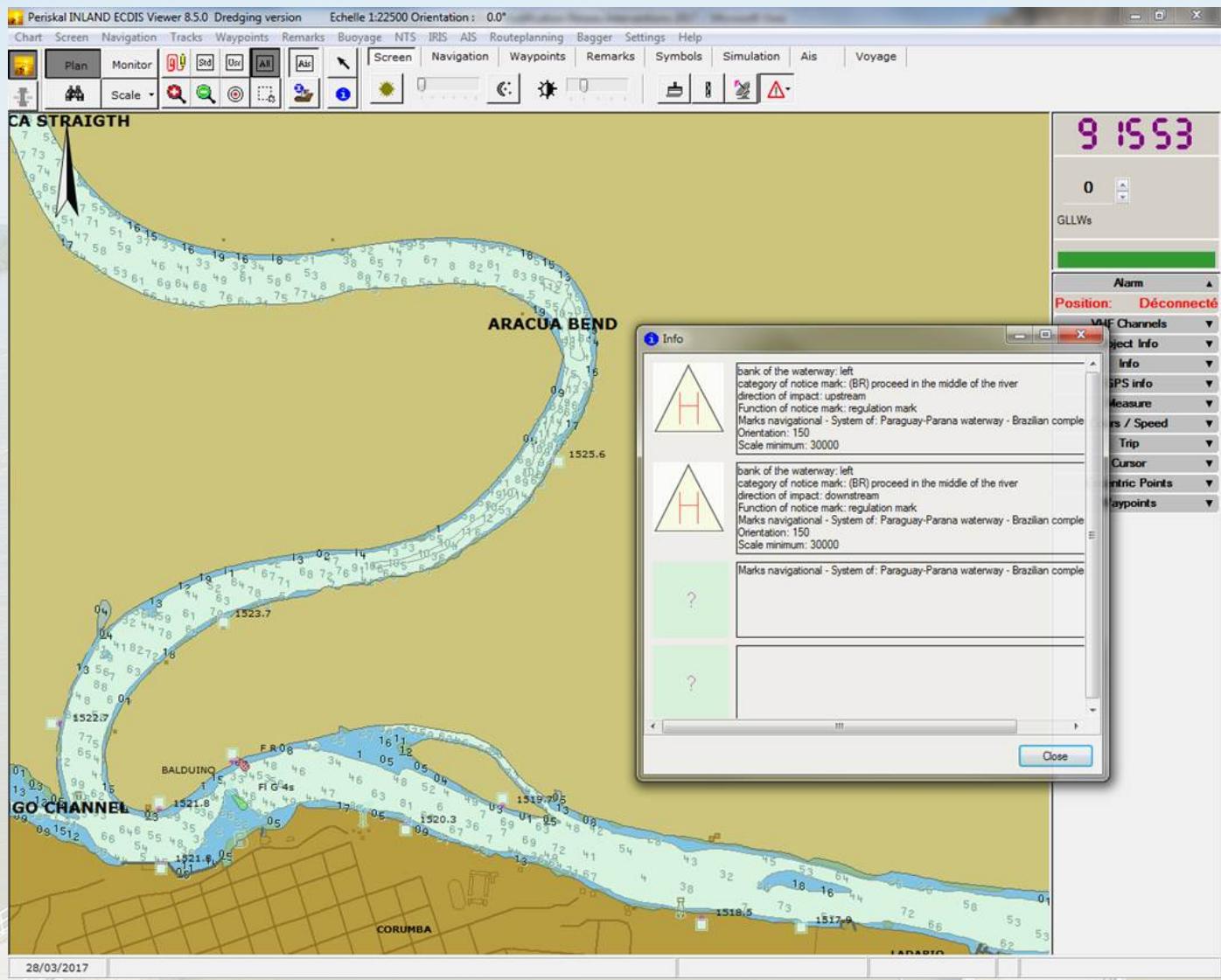
# ENC chart production

- Standard Inland ENC in format 2.3 / 2.4
- Bathymetric ENC production
- Standard tool set for production using software from Seven C's, Moris and FME
- Various types of source data can be used
- Training can be organised
- References : Belgium, Serbia, Poland and Italy
- Currently producing ENC's for Belgium (De Vlaamse Waterweg and SPW), AIPO Italy and setup of production unit in DR Congo

# On board solutions

- Using Inland ECDIS and bathymetric ENC's
- Special attention to South America / Italy
- Using AIS
- Reception of Notices to Skipper, messages
- Reception of Water Level information
- Reception of Hydro and Meteo information
- Using Radar (optional)
- Routeplanning functionality

# Periskal Viewer Brazilian Paraguay-Parana Waterway

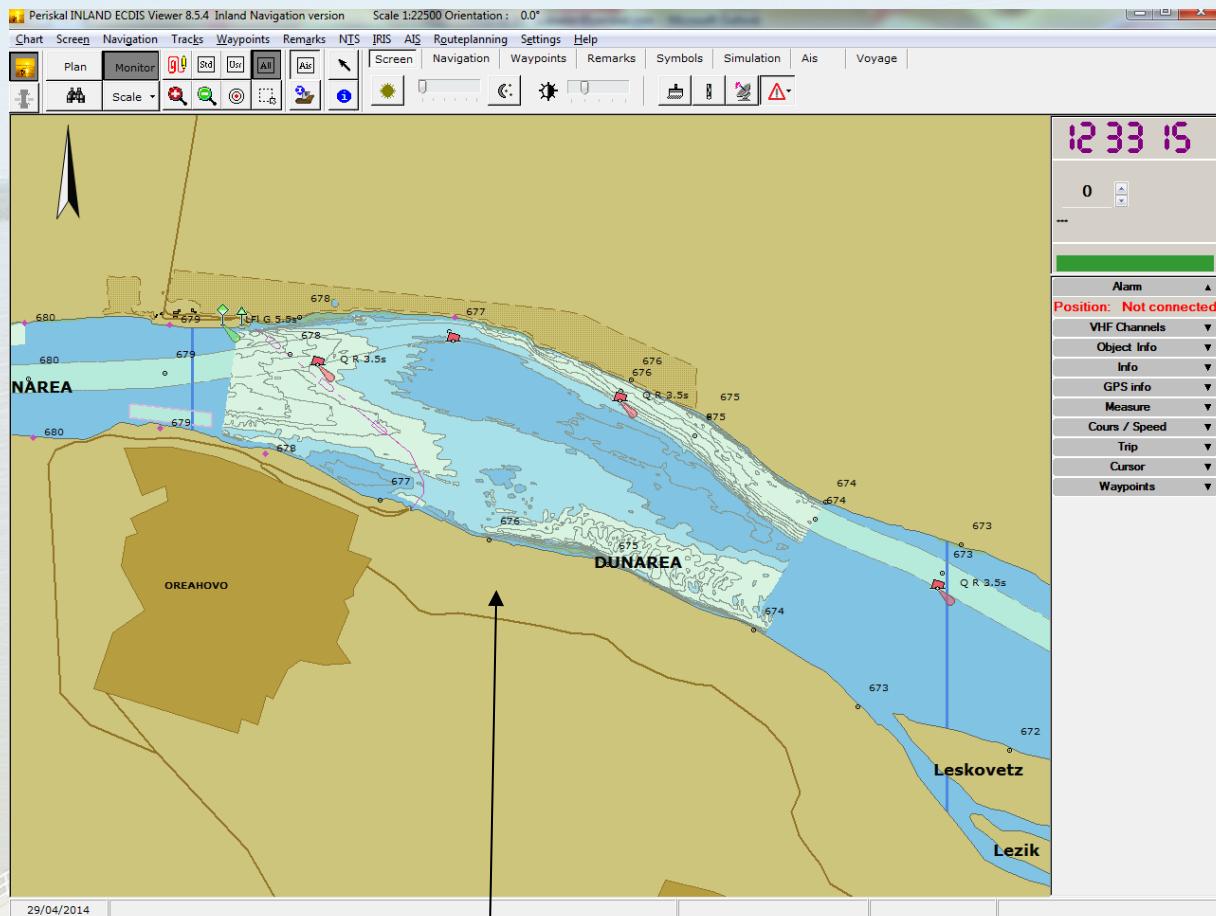


**PERISKAL**  
GROUP

Microsoft Partner  
Silver Independent Software Vendor (ISV)

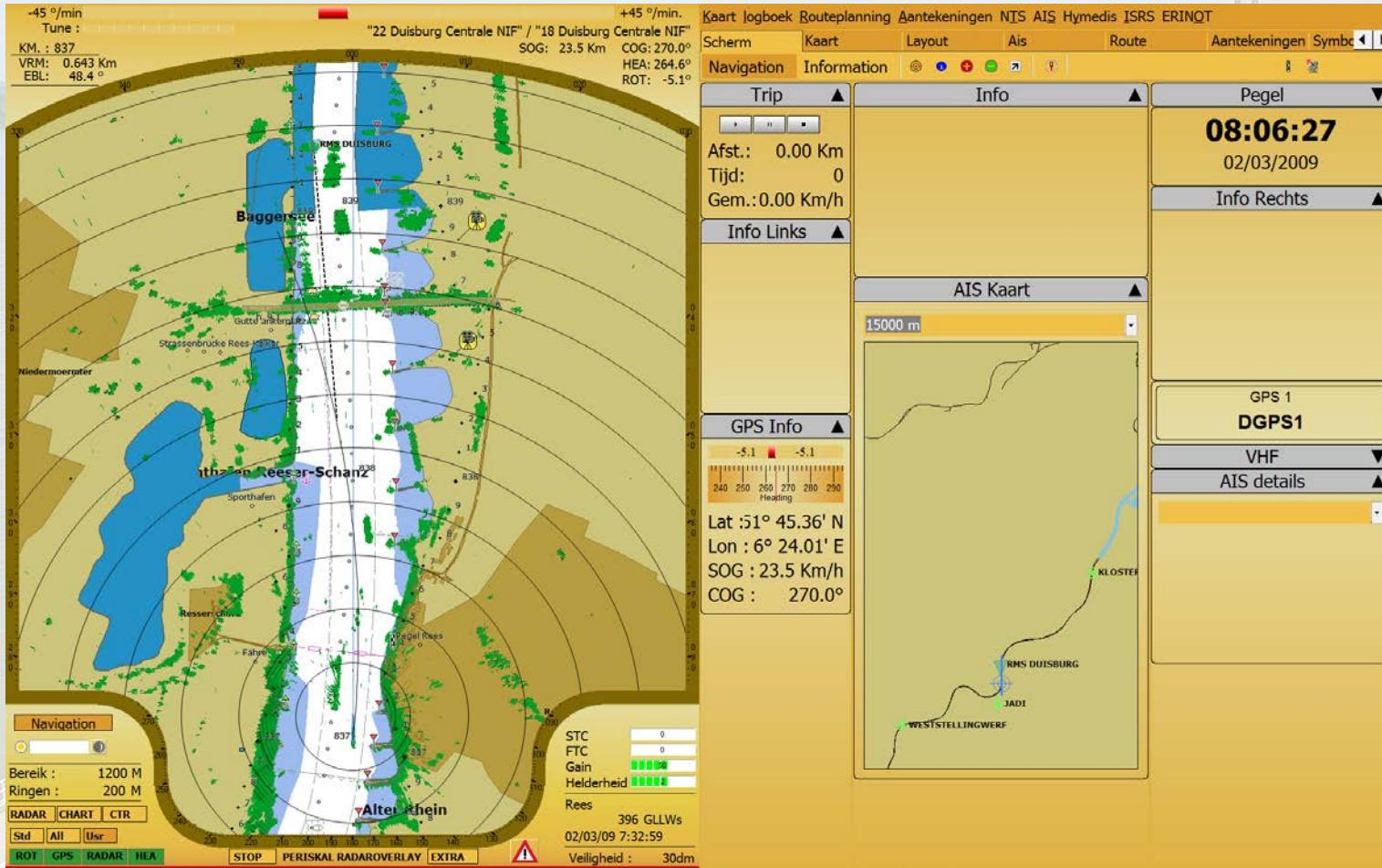


# Periskal Inland ECDIS Viewer with Bathymetric ENC

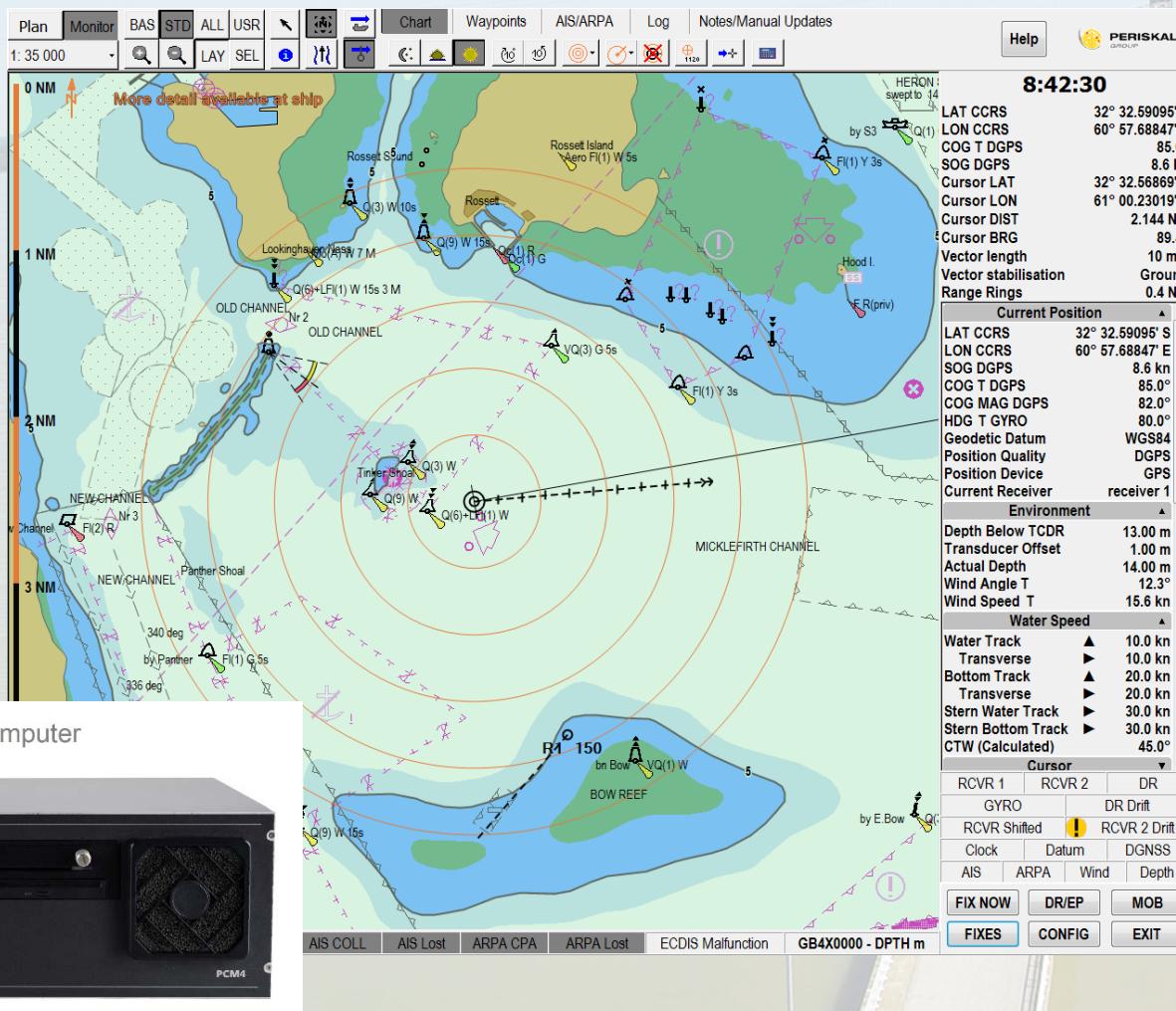


Bathymetric ENC / Port ENC overlay

# Periskal Radar Overlay



# Periskal ECDIS



PCM4-H77 - Marine Computer

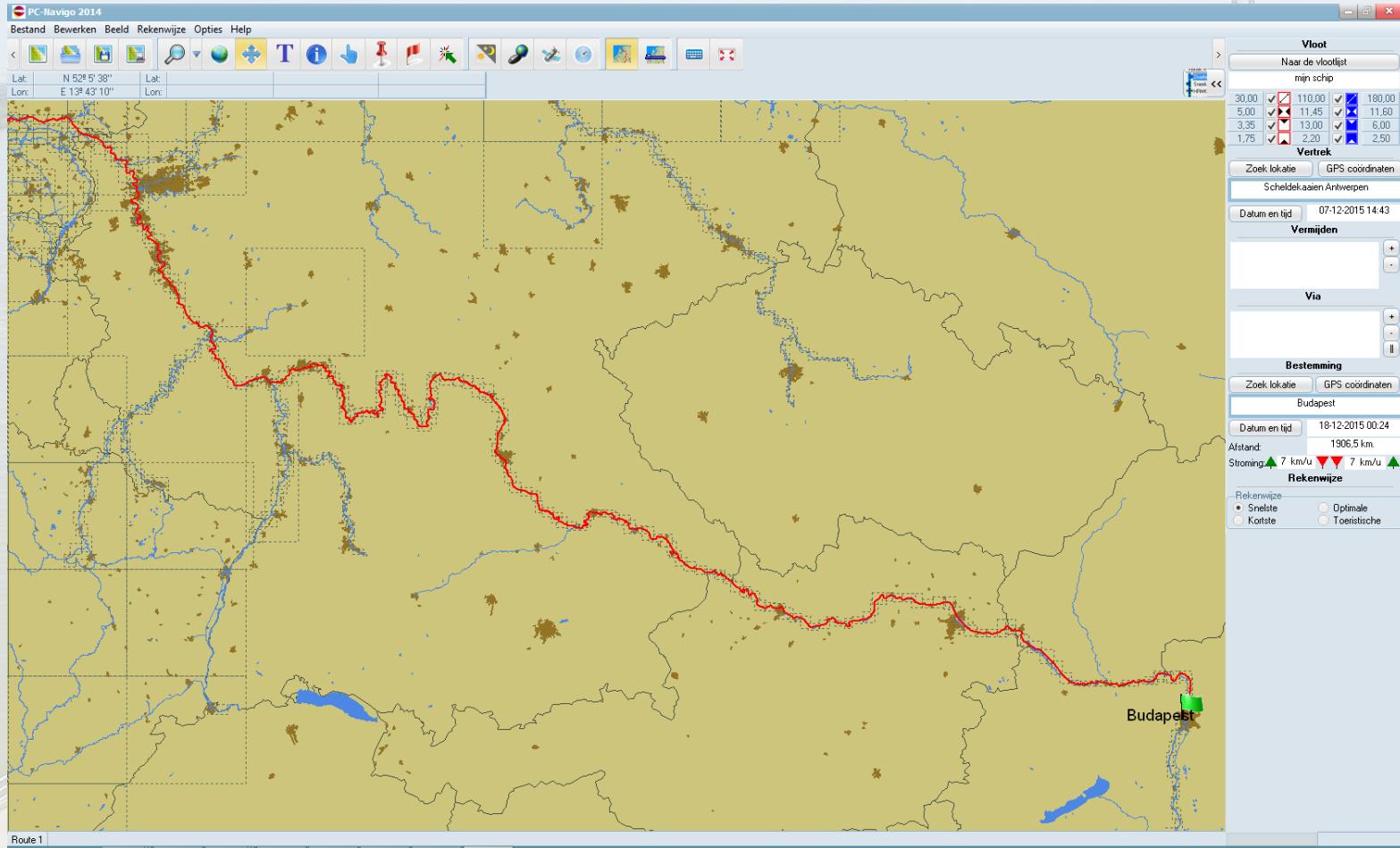


**PERISKAL**  
GROUP

Microsoft Partner  
Silver Independent Software Vendor (ISV)



# PC-Navigo with routeplanning



**PERISKAL**  
GROUP

Microsoft Partner  
Silver Independent Software Vendor (ISV)



# Traffic Information via AIS

- Installation of AIS Base Stations along the river
- Shore Based infrastructure including masts
- DGNSS message 17
- Broadcast of messages – bidirectional
- Aton information



AIS omnidirectional antenna on a lock

## AIS directional antenna's





Ship installation with radar overlay



# Shore Based systems

- Web based tracking system for vessels
- Using Inland ECDIS as base map
- Standard web browser to operate
- Access and rights by user management
- Smartphone and tablets can use it too

Search



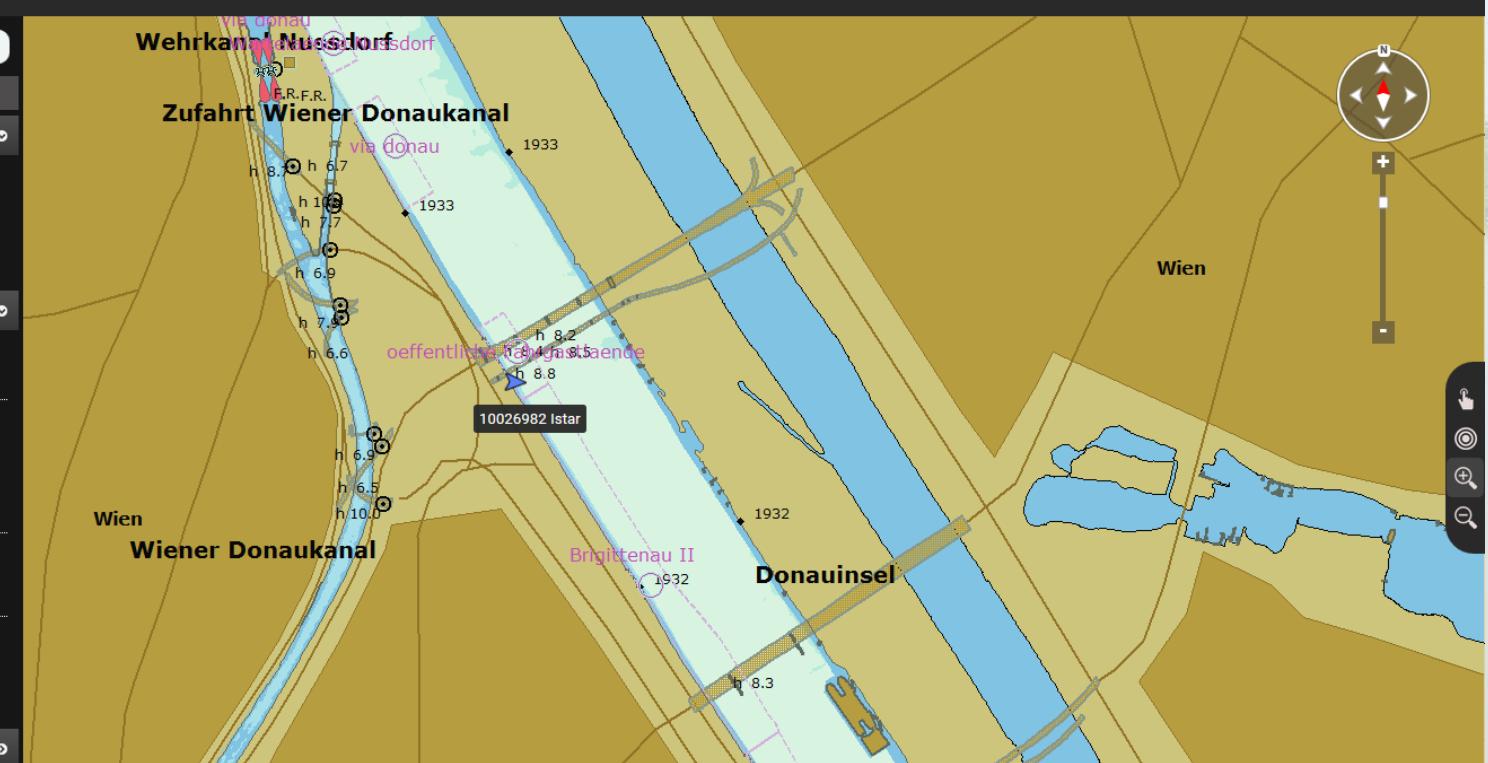
## Chart information

LATITUDE 48° 15' 1.51" N  
LONGITUDE 16° 23' 3.16" E  
DIRECTION 0 °  
SCALE 1 / 10000  
SHIPS 63

## Chart options

DOYS ON LIGHTS ON  
BELS OFF NIGHT OFF  
Targets  
IMPS ON  
Navigation  
IMPASS ON NAVIGATION ON  
ARTS ON

Pick Report



Web based tracking portal using Inland ENC's and AIS data



**PERISKAL**  
GROUP

Microsoft Partner  
Silver Independent Software Vendor (ISV)



Search

Chart information

LATITUDE 51° 29' 15.32" N  
LONGITUDE 3° 22' 31.79" E  
DIRECTION 0 °  
SCALE 1 / 75000  
AIS OBJECTS 17

WK 28

Chart options

Pick Report

Details Window

Identification

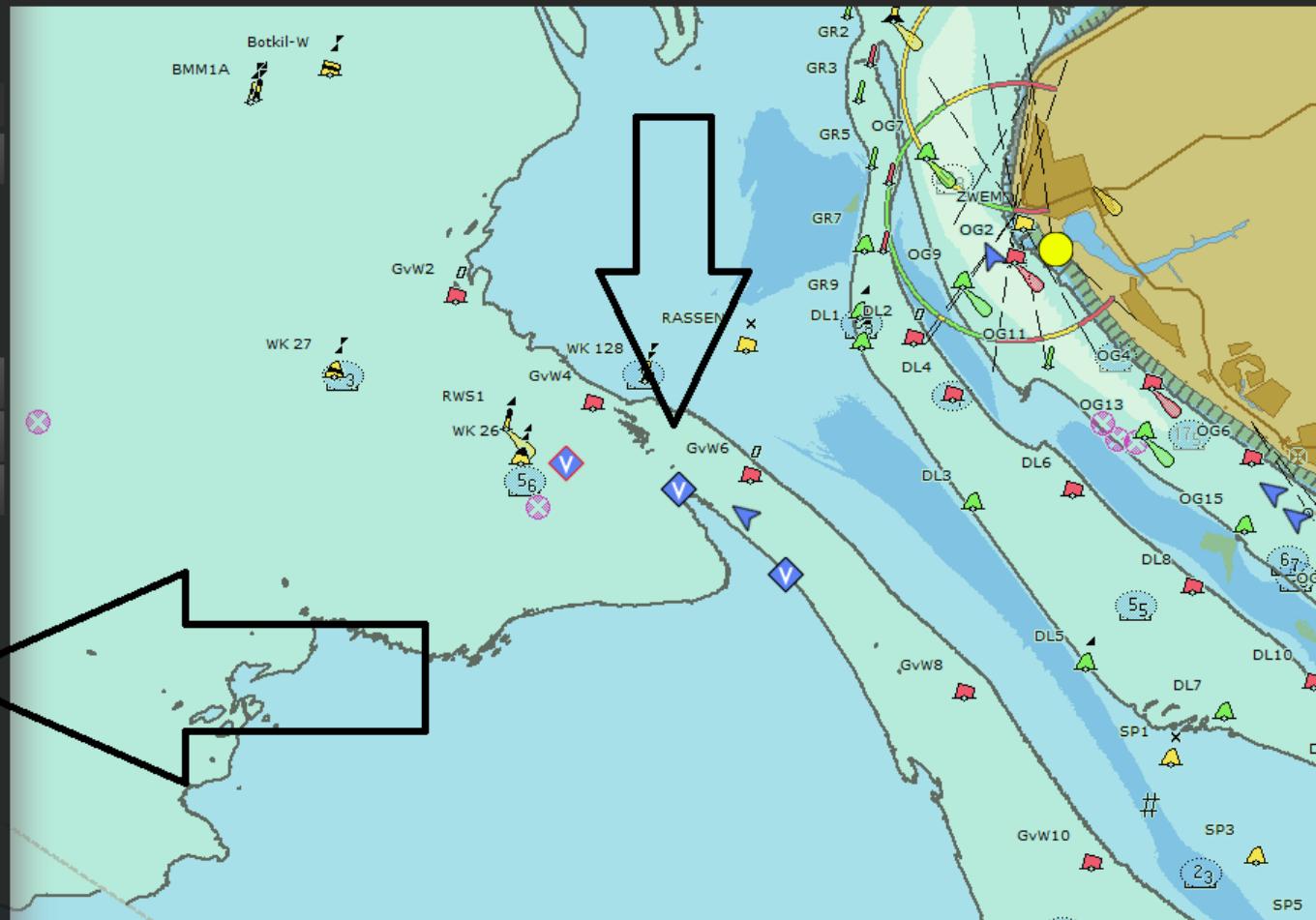
NAME: GvW1  
MMSI: 992442132

Object details

OBJECT TYPE: AToN VIRTUAL: Yes

Position

LATITUDE: 51° 30' 0" N  
LONGITUDE: 3° 21' 30" E



Search

Chart information

LATITUDE: 45° 24' 58.98" N  
LONGITUDE: 20° 50' 27.33" E  
DIRECTION: 0°  
SHIPS: 63

Chart options

Buoys: ON LIGHTS: ON

Labels: ON NIGHT: OFF

ID:  NAME:

LOCAL TIME:  SOG:

KM:

Font Size:  10/45

Opacity:  80/100

Bold: OFF

AIS Targets

SHIPS: ON

Wuustwezel 22° BE Tuesday 6 September 2016 11:56:56

5 km/h SSE 90% Clouds 88% Humidity

The map displays several AIS ship tracks with blue diamond markers and callouts. The tracked ships are:

- 10032531 Mercur 302
- 10032541 Mercur 206
- 10032534 Mercur 210
- 10032525 Mercur 203
- 10032532 Mercur 204
- 10032527 Mercur 309
- 10032542
- 10032538 Mercur 202
- 10032537 Mercur 207

Geographic features include the Danube River, Lake Balaton, and various cities like Budapest, Szeged, Timisoara, and Belgrade.

## Presentation of AIS data on Google Maps

Meest bezocht Aan de slag

## FLEET TRACKING



Chart



Text



History



Search



## Chart information

LATITUDE 45° 24' 58.98" N  
 LONGITUDE 20° 50' 27.33" E  
 DIRECTION 0 °  
 SHIPS 63

## Chart options

BOOYS  LIGHTS

LABELS  NIGHT  OFF

ID  NAME

LOCAL TIME  SOG

KM

FONT SIZE  10/45

OPACITY  80/100

BOLD  OFF

Ais Targets

SHIPS

22° Wuustwezel BE  
 SSE 5 km/h  
 90% Clouds  
 88% Humidity  
 Tuesday 6 September 2016  
 11:59:55

## List of available targets on chart

Filter

Name	UTC Time	Local time	KM	SOG	Latitude	Longitude	COG
Istar	20/03/2012 16:27	20/03/2012 17:27	1932.5	0 km/h	48° 15' 10.19" N	16° 22' 36.59" E	93 °
DUNAV 4	06/09/2016 06:23	06/09/2016 06:23	83	10 km/h	49° 19' 46.2" N	9° 5' 58.2" E	145 °
DUNAV 7	06/09/2016 08:48	06/09/2016 08:48	53.1	0 km/h	50° 7' 30" N	8° 52' 16.2" E	276 °
DUNAV 1	06/09/2016 09:15	06/09/2016 09:15	309	8 km/h	44° 16' 30.61" N	27° 57' 58.21" E	206 °
DUNAV 6	06/09/2016 08:40	06/09/2016 08:40	157.6	0 km/h	48° 56' 12.01" N	9° 15' 0" E	274 °
DUNAV	06/09/2016 09:39	06/09/2016 09:39	2411.2	0 km/h	48° 54' 34.2" N	11° 54' 42.01" E	307 °
DUNAV 3	06/09/2016 08:26	06/09/2016 08:26	23.8	13 km/h	50° 5' 29.4" N	8° 32' 24" E	235 °
Colmar	14/04/2016 06:18	14/04/2016 06:18	322.5	2 km/h	44° 15' 8.39" N	27° 50' 3.01" E	232 °
Mercur 301	06/09/2016 09:38	06/09/2016 09:38	302	1 km/h	44° 19' 22.19" N	28° 0' 39.6" E	76 °
Mercur 307	06/09/2016 09:05	06/09/2016 09:05	239	11 km/h	44° 44' 46.79" N	27° 52' 30.61" E	9 °
Mercur 303	06/09/2016 09:11	06/09/2016 09:11	567	2 km/h	43° 41' 9.6" N	25° 12' 54" E	110 °
Mercur 201	06/09/2016 09:45	06/09/2016 09:45	703	4 km/h	43° 48' 18" N	23° 41' 3.01" E	260 °
Mercur 203	06/09/2016 08:59	06/09/2016 08:59	1404	4 km/h	45° 40' 47.39" N	18° 56' 44.41" E	302 °
Sidex 2	06/09/2016 09:06	06/09/2016 09:06	0	0 km/h	44° 7' 59.41" N	28° 39' 2.99" E	301 °
Mercur 309	06/09/2016 08:01	06/09/2016 08:01	0	0 km/h	44° 45' 4.79" N	19° 43' 6.6" E	311 °
Mercur 308	06/09/2016 09:16	06/09/2016 09:16	0	13 km/h	45° 26' 27.6" N	28° 7' 0.59" E	279 °
Mercur 211	06/09/2016 09:06	06/09/2016 09:06	0	0 km/h	44° 7' 54.59" N	28° 39' 5.4" E	331 °
Mercur 209	06/09/2016 09:23	06/09/2016 09:23	567	0 km/h	43° 41' 4.81" N	25° 13' 4.19" E	116 °
Mercur 302	06/09/2016 09:49	06/09/2016 09:49	1550	12 km/h	46° 43' 40.8" N	18° 59' 26.41" E	151 °
Mercur 204	06/09/2016 09:23	06/09/2016 09:23	1335	0 km/h	45° 21' 52.81" N	18° 59' 4.81" E	88 °

Page 1 of 4

Table View of targets on the river



**PERISKAL**  
GROUP

Microsoft Partner  
Silver Independent Software Vendor (ISV)



# Aids to Navigation

Welcome, admin! [Log off](#)

**Virtual Buoys** 99226101 AtonExample

MMSI  
99226101

Name  
AtonExample

Buoy type  
 Inland  Maritime  
Cardinal Mark N

Fairway  
Schelde

Buoy comment  
Example Comment

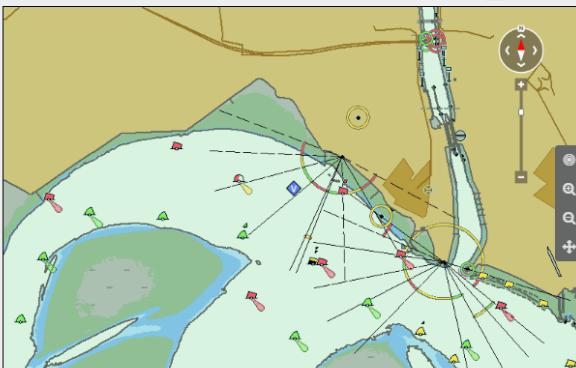
Startdate  
dd/mm/yyyy  
--:--

Enddate  
dd/mm/yyyy  
--:--

Latitude  
51° 26' 56.91" N

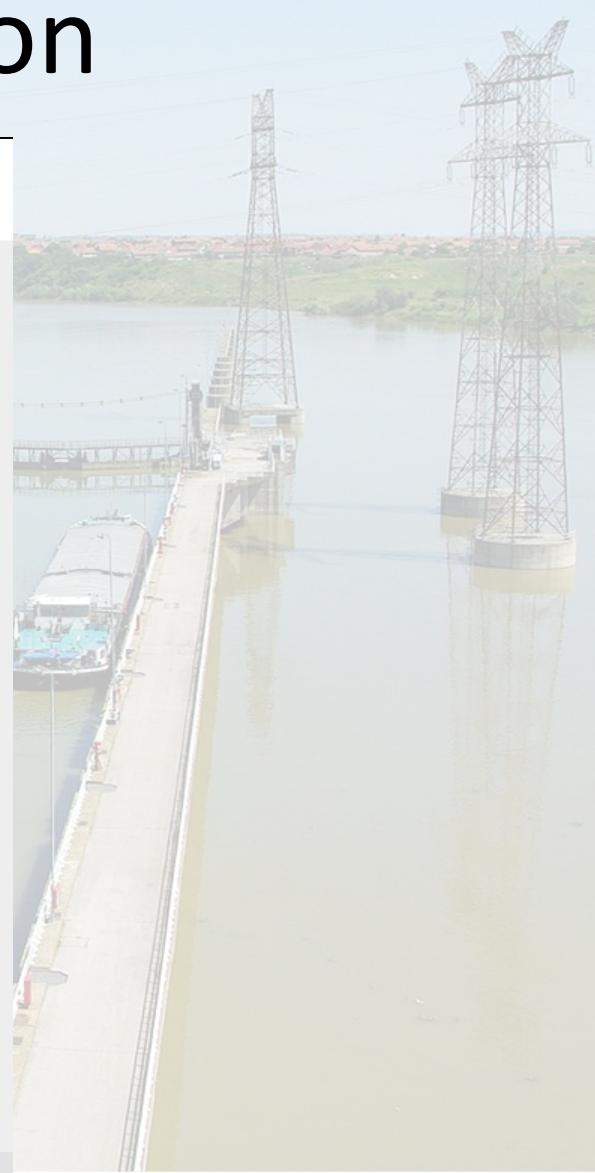
Longitude  
3° 58' 54.19" E

51.4491408 3.98171829

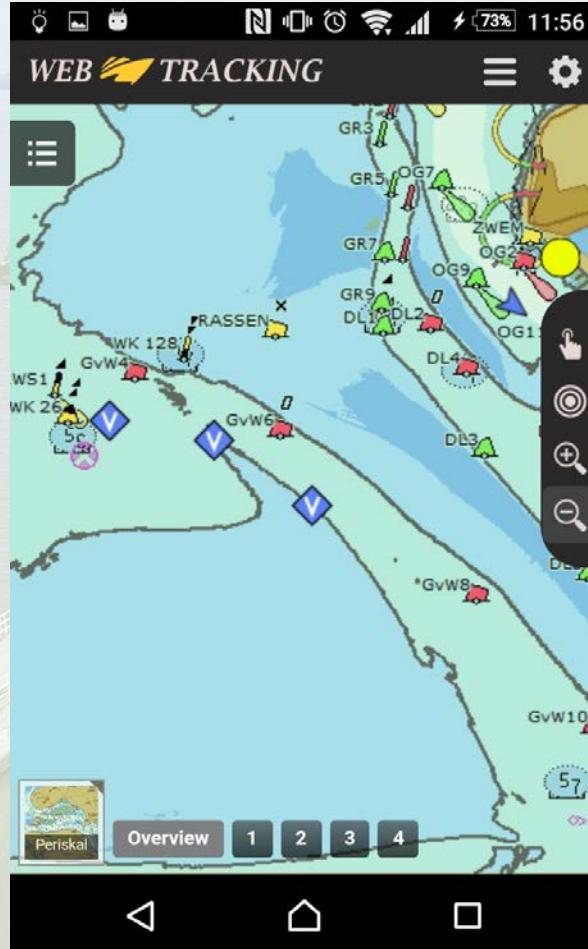


Save Cancel

© 2017 - Periskal CVBA <http://www.periskal.com>



# Webtracking /monitoring on smartphone





# Thank you for your attention.

Marc Persoons  
Periskal group  
[www.periskal.com](http://www.periskal.com)