Tracking, monitoring & fleet management of unpowered mobile transport units

SaMoLoSa: Satellite Monitoring for Logistics Safety

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Tracking, monitoring & fleet management of unpowered mobile transport units

Tracking & Monitoring of Unpowered Mobile Transport Assets

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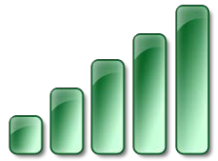

ATEX

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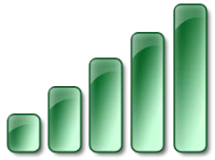
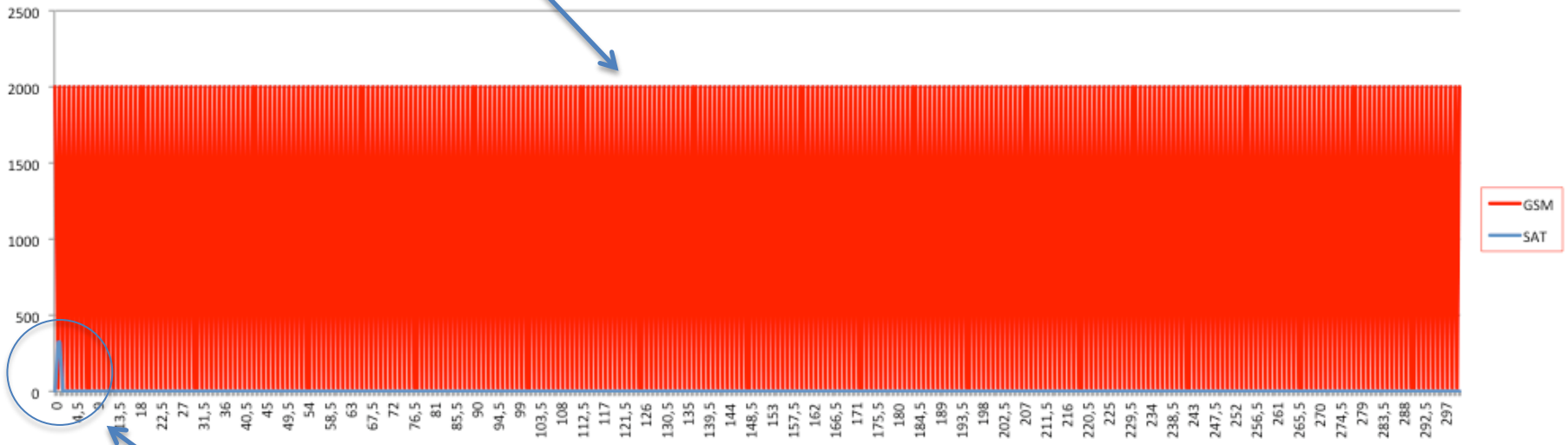
GSM: 8x/sec, up to 2.000 mA, 60-120-300 sec ?





Sat: < 320 mA 1,44 Sec

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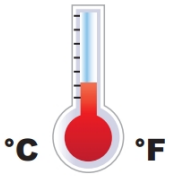
Much more than Track & Trace !

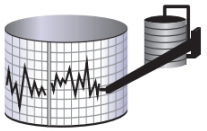
Kilometers

Pressure



Temperature

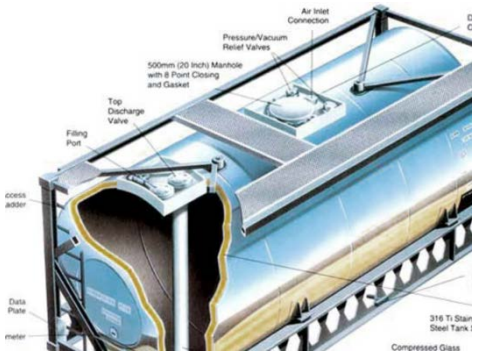
Location



Shocks

Level

Leakage



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Our business: ‘to measure is to know and more important…

to let you know !’

Partners & customers

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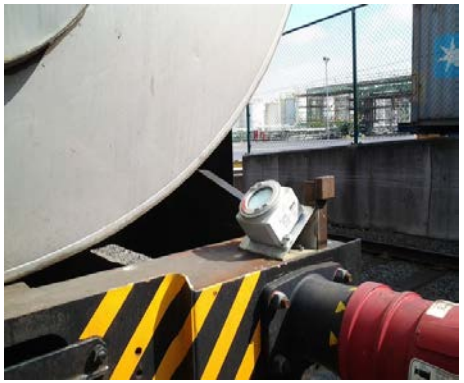

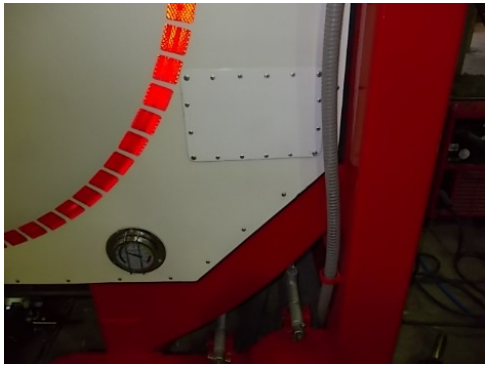

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Benefits

- Cost savings
- Increase return/turnover
- Increased safety
- Competitive advantage
  - Measuring is knowing…no one measures

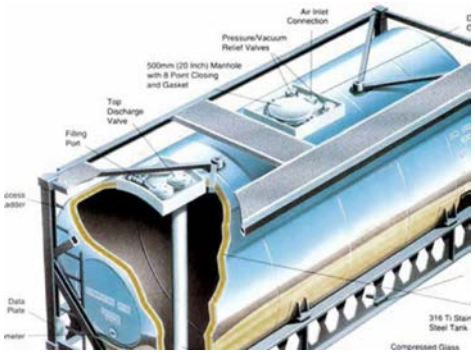
deviceID	Meters	From	To	days	km/year
992099	135.384.019,56	2013-05-01 23:00:57+02	2014-10-09 13:00:59+02	525	94.124
994534	93.973.557,44	2013-05-01 18:00:56+02	2014-10-09 12:02:23+02	525	65.334
994526	67.771.914,99	2013-05-01 18:00:57+02	2014-10-09 12:01:23+02	525	47.118
992825	58.247.502,88	2013-05-01 19:00:45+02	2014-10-09 13:01:01+02	525	40.496
993654	57.410.881,73	2013-05-01 18:00:56+02	2014-10-09 12:00:56+02	525	39.914
993126	55.892.658,24	2013-05-01 18:00:44+02	2014-10-09 12:00:57+02	525	38.859
994532	53.572.051,25	2013-05-01 18:00:54+02	2014-10-09 12:00:57+02	525	37.245
995021	52.387.975,39	2013-05-01 19:00:51+02	2014-10-09 13:01:03+02	525	36.422
993643	50.428.499,06	2013-05-01 19:00:45+02	2014-10-09 13:01:02+02	525	35.060
992083	22.020.857,04	2013-05-01 19:00:57+02	2014-10-09 13:00:57+02	525	15.310
994439	21.824.733,53	2013-05-01 18:00:57+02	2014-10-09 08:15:18+02	525	15.173
992108	19.680.879,85	2013-05-01 18:00:50+02	2014-10-09 12:07:41+02	525	13.683
992118	19.496.869,69	2013-05-01 18:01:17+02	2014-10-09 12:01:18+02	525	13.555
994381	18.699.099,99	2013-05-01 19:00:57+02	2014-10-09 10:06:35+02	525	13.000
994790	18.020.247,18	2013-05-01 18:00:56+02	2014-10-09 13:07:02+02	525	12.528
995009	17.893.036,87	2013-05-01 19:00:56+02	2014-10-09 13:01:02+02	525	12.440
994096	17.839.861,47	2013-05-01 19:08:08+02	2014-10-09 09:09:27+02	525	12.403
946946	17.730.188,77	2013-05-01 18:01:14+02	2014-10-09 02:01:18+02	525	12.327
993130	17.469.062,82	2013-05-01 19:16:24+02	2014-10-09 13:01:02+02	525	12.145
946980	16.947.605,63	2013-05-01 18:01:14+02	2014-10-09 13:00:57+02	525	11.783
994024	16.889.024,76	2013-05-01 18:00:50+02	2014-10-09 12:06:21+02	525	11.742
992127	16.872.132,66	2013-05-01 18:01:25+02	2014-10-09 12:01:00+02	525	11.730
994304	16.554.022,59	2013-05-01 19:18:01+02	2014-10-09 13:01:02+02	525	11.509
994450	14.080.676,28	2013-05-01 19:01:14+02	2014-10-09 13:01:15+02	525	9.789
994060	23.361.080,08	2013-05-01 18:00:56+02	2014-10-07 20:02:15+02	524	16.273
994032	42.740.108,80	2013-05-01 18:00:57+02	2014-08-18 08:16:54+02	473	32.981
921287	2.213.226,39	2013-05-01 19:05:59+02	2014-08-12 19:00:57+02	467	1.730
992101	153.995,26	2013-05-13 05:07:24+02	2014-08-21 19:16:06+02	465	121
994544	57.848.078,43	2013-07-04 00:10:04+02	2014-10-09 12:01:00+02	462	45.702

15:00:57	Location	51.68810/7.08780	Mileage: 3550 km Temp: 10 deg Celsius - Temp 1hour ago: 10 deg Celsius	Marl, NW 45772 DE
17:20:56	Location	51.68810/7.08860	Mileage: 3550 km Temp: 9 deg Celsius - Temp 1hour ago: 9 deg Celsius	Marl, NW 45772 DE
19:01:03	Location	51.68810/7.08860	Mileage: 3550 km Temp: 8 deg Celsius - Temp 1hour ago: 9 deg Celsius	Marl, NW 45772 DE
21:00:48	Location	51.68780/7.08860	Mileage: 3550 km Temp: 9 deg Celsius - Temp 1hour ago: 8 deg Celsius	Marl, NW 45772 DE
23:07:52	Location	51.68800/7.08890	Mileage: 3550 km Temp: 17 deg Celsius - Temp 1hour ago: 17 deg Celsius	Marl, NW 45772 DE
01:08:52	Location	51.68770/7.08880	Mileage: 3550 km Temp: 16 deg Celsius - Temp 1hour ago: 16 deg Celsius	Marl, NW 45772 DE
03:01:20	Location	51.68270/7.11020	Mileage: 3550 km Temp: 16 deg Celsius - Temp 1hour ago: 16 deg Celsius	Marl, NW 45772 DE
05:01:03	Location	51.68150/7.11140	Mileage: 3550 km Temp: 16 deg Celsius - Temp 1hour ago: 16 deg Celsius	Marl, NW 45772 DE
07:07:51	Location	51.68140/7.11140	Mileage: 3550 km Temp: 16 deg Celsius - Temp 1hour ago: 16 deg Celsius	Marl, NW 45772 DE
09:07:52	Location	51.68140/7.11150	Mileage: 3550 km Temp: 16 deg Celsius - Temp 1hour ago: 16 deg Celsius	Marl, NW 45772 DE

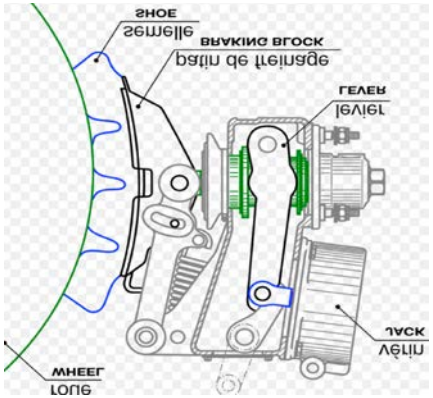
	Date	Location	Activity	Days
	26/11/14	Marl	filling	
	3/12/14	Rheinmunster	Emptying	7
	16/12/14	Bxxhlen	filling	13
	20/12/14	Rheinmunster	Emptying	4
	2/01/15	Bxxhlen	filling	13
	6/01/15	Rheinmunster	Emptying	4
	10/01/15	Marl	filling	4
	17/10/15	Rheinmunster	Emptying	7
	25/01/15	Marl	filling	8

Damage prevention

- Monitoring of opening of overpressure valve



- Monitoring of pneumatic pressure on breaks



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This is what we send…every 2 hours

- Unique ID
- Date & Time
- GPS position
- Direction
- Speed
- Temperature a messaging
- Temperature one hour before
- Full/empty status
- Rollover notification
- Crash buffer damage
- Overpressure valve
- Wrong braking pressure
- Exact kilometers
- Tailor made (engine hours…)

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Practical goals

- Mutual platform
- EU Railgrid & Risk analysis
- Combination marine component
- Develop commercial model with max. return

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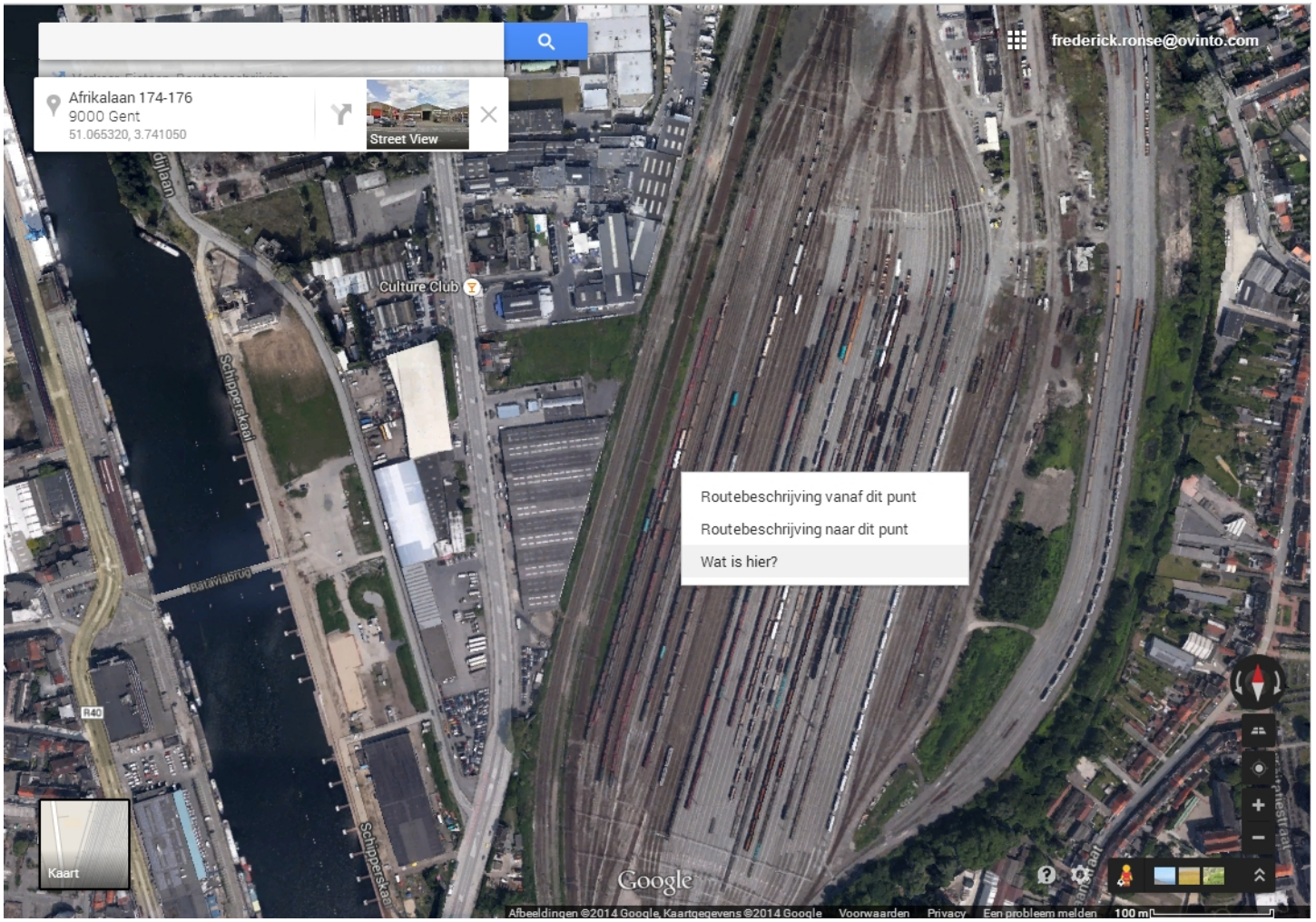

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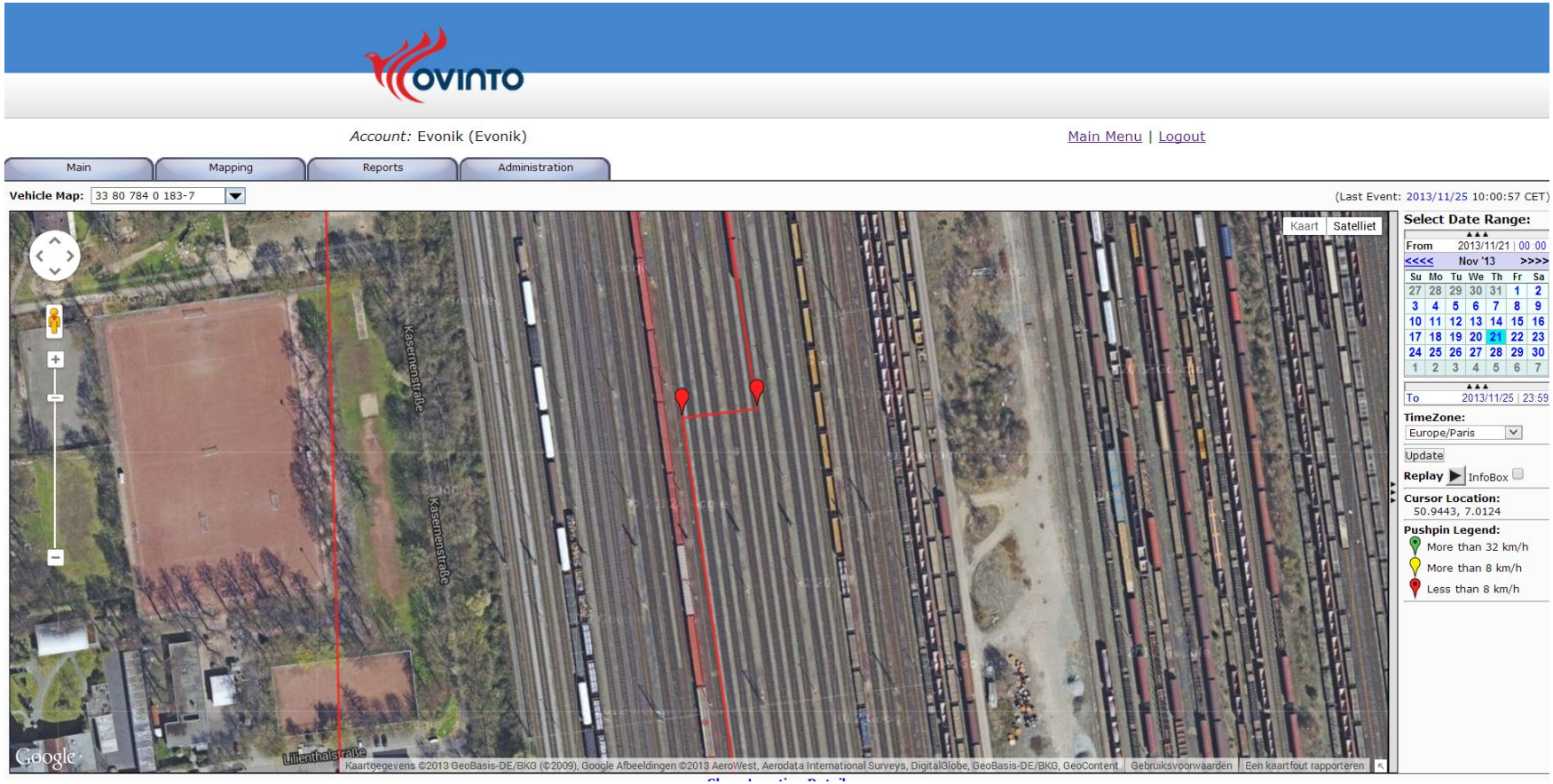
Railgrid



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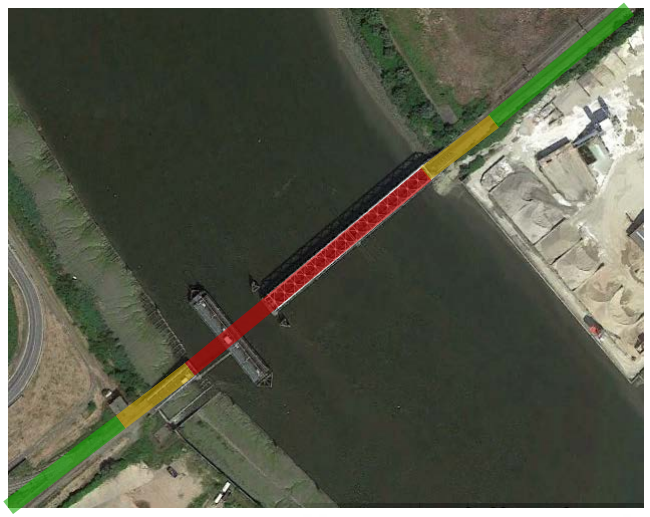

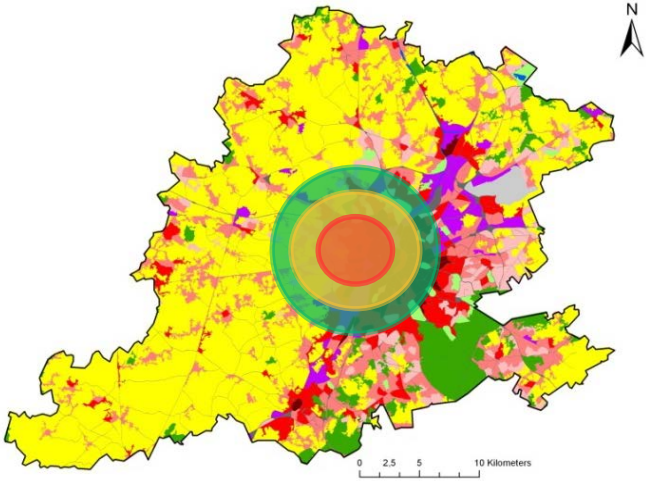

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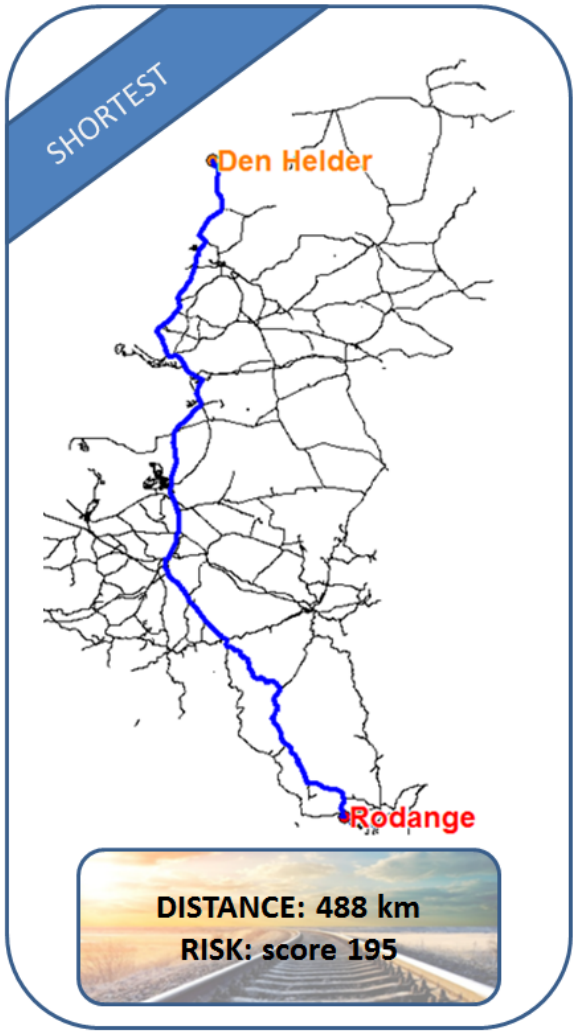
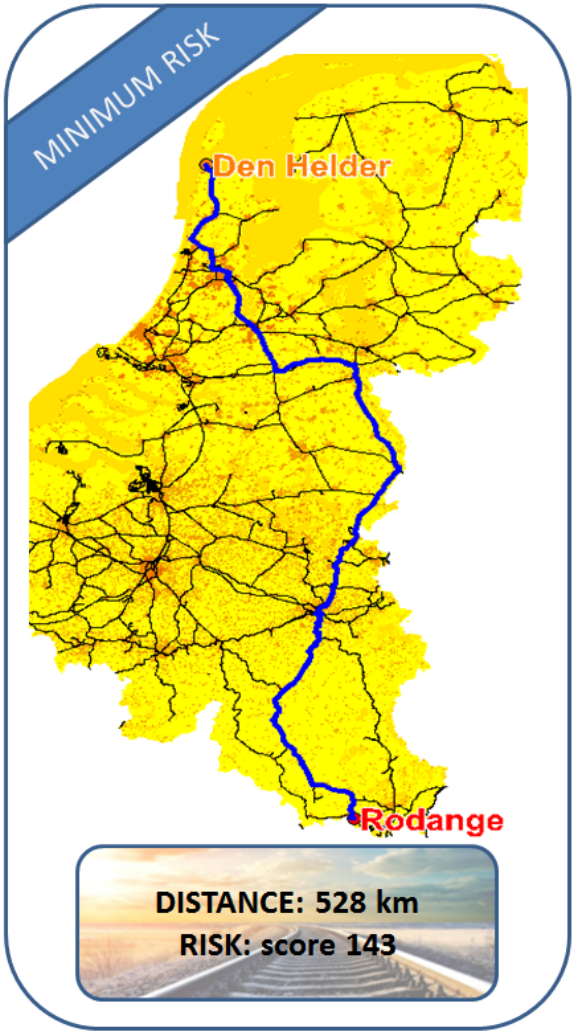
Safest routing





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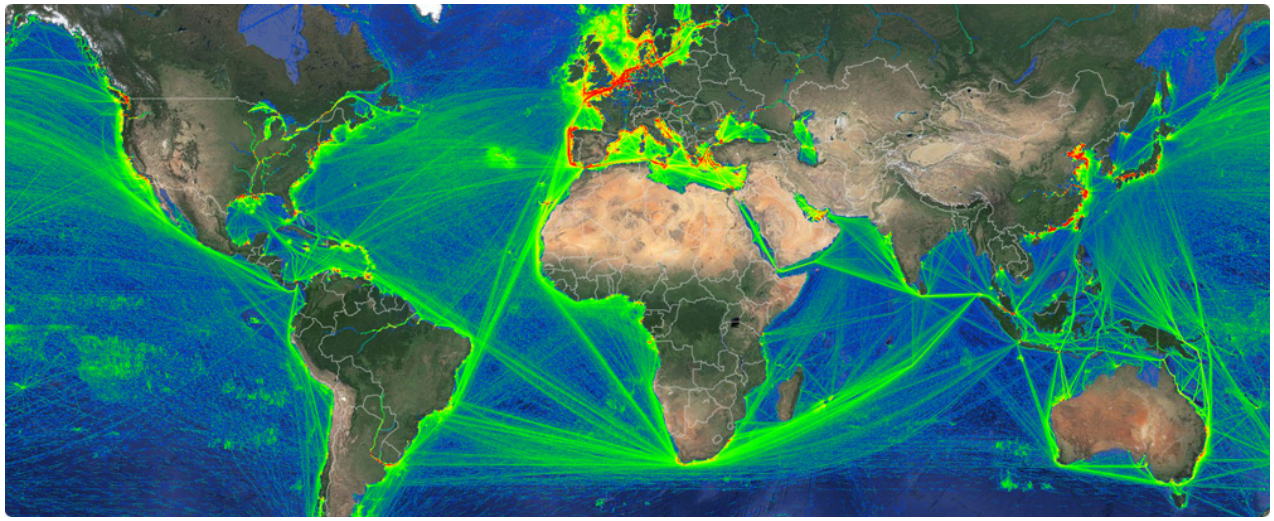

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