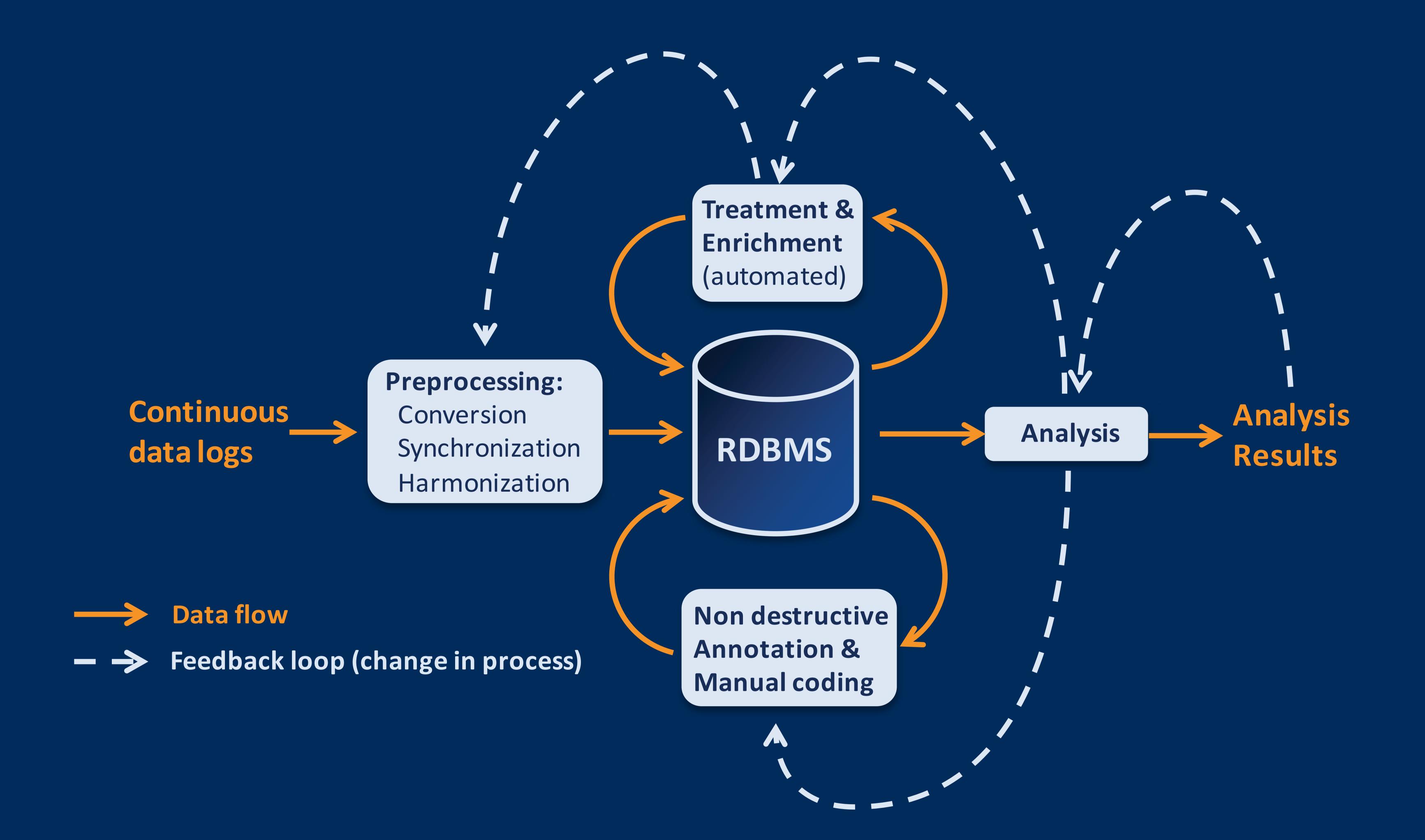


Bringing intelligent vehicles to the road

Data Analysis Tools at the French and German 1 Vehicle Management Centres

Before proceeding with analysis, it is necessary to transform the huge amount of raw, continuously acquired data, into a usable, reduced dataset. This reduced dataset consists mainly of relevant events and situations, characterised by their driving context (situational variables such as system use, weather, traffic density, road type) and performance indicators (e.g. average fuel consumption).

This transformation is a complex process, consisting for each trip of a mix of automatic processing and manual annotation, which is made especially challenging by the size of the dataset, collaboration requirements, and the necessity to go back on processing when interim results recommend improvements.



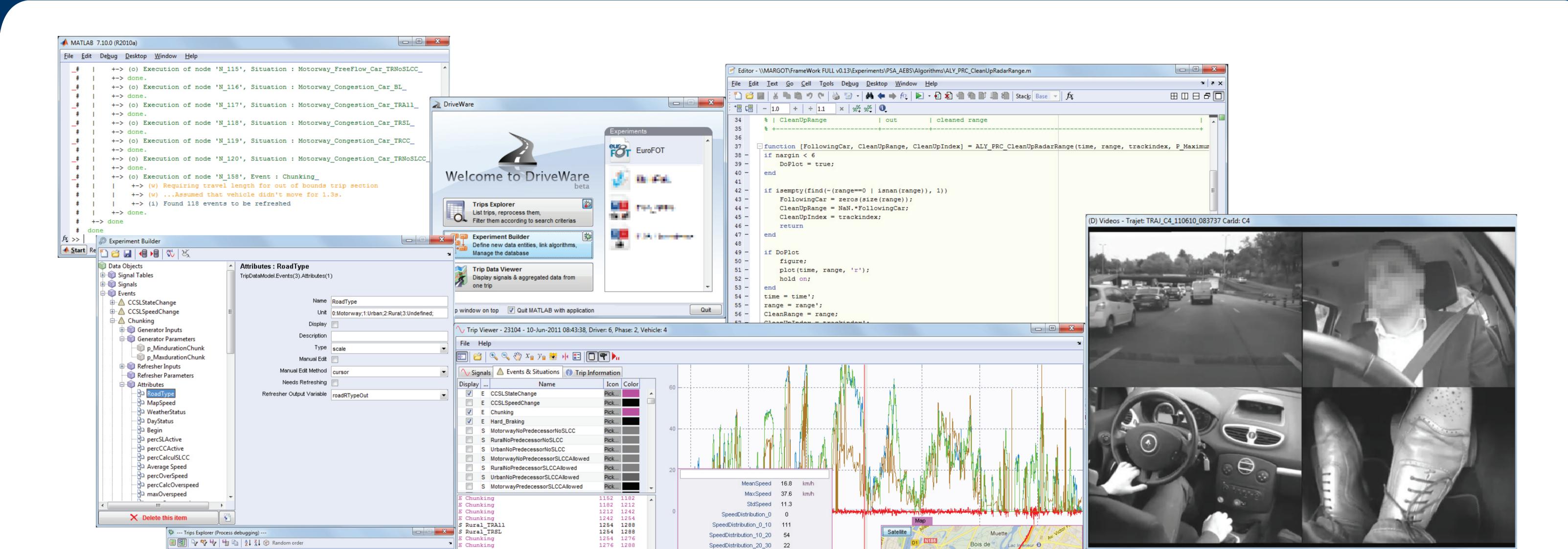




www.eurofot-ip.eu



An integrated data analysis software, sitting on top of a relational database, has been designed and used by French and German1 Vehicle Management Centre. It implements a complete separation between scientific tasks and data management, both of which are managed through graphical user interfaces. By giving easy access to data, and by controlling and automating most operations, it facilitates the work of analysts while ensuring data quality and consistency.



SpeedDistribution_20_30 22

The first European large-scale Field Operational Test on Driver Assistance Systems

	Available	: 45545, Fi	ittered : 590, Selected : 0		🛄 Firs	rst 100		All Select	AI	S Motorway_TRAIL	1303	1401		-20		SpeedDistribution_30_40	58			1111
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-	23104	-	16-Apr-2011 20:10:59	16	1	00:06,	-			S FreeFlow TRAll		1390	_				0			
	23104	ClioHigh	23-Aug-2011 08:39:11	13	2	00:32	, 14 km			S FreeFlow_TRSL		1390				SpeedDistribution_50_60	0			
off X	23104	ClioHigh	18-Mar-2011 06:01:21	15	1		, 65 km			S Motorway_FreeFlow_Car_TRAll	1314	1390	=			SpeedDistribution_60_70	0			
	23104	ClioHigh	05-Aug-2011 08:02:20	17	2		, 6 km		=	S Motorway_FreeFlow_Car_TRSL E Chunking	1314 1334	1390 1360		-40		SpeedDistribution_70_80	0			
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-	23104	ClioHigh	20-Oct-2011 07:45:38	7	2		, 34 km			E Chunking	1416	1446								
	23104	ClioHigh	10-Jun-2011 08:43:38	6	2	_	, 20 km			E Chunking	1462					SpeedDistribution_90_100	0			
on 🗙	23104	ClioHigh	19-Sep-2011 14:56:14	4	2	00:22	, 11 km	##		S Motorway_TRAll S Motorway_TRSL	1494 1494	1541 1541				SpeedDistribution_100_110	0			
	23104	ClioHigh	21-Oct-2011 17:27:22	7	2	00:00	, 0 km			E Chunking	1494	1524		-60		SpeedDistribution_110_120	0			
	23104	ClioHigh	15-Apr-2011 18:08:52	16	1	00:04,				S Congestion_TRAll		1530				SpeedDistribution_120_130	0			
	23104	ClioHigh	18-Mar-2011 20:13:24	15	1	00:05,				S Congestion_TRSL	1505	1530								
off X	23104	ClioHigh	25-Nov-2011 06:59:18	12		00:13,			- 1	S Motorway_Congestion_Car_TRAll	1505	1530				SpeedDistribution_130_140	0			
2012 -	23104 23104	-	25-Jun-2011 20:18:15 05-Aug-2011 14:04:59	9		00:06, 00:08,				S Motorway_Congestion_Car_TRSL E Chunking	1505 1524	1530 1541				SpeedDistribution_140_150	0			
2012	23104	ClioHigh	03-Aug-2011 14:02:26	17	2		, 6 km			E Chunking	1541	1571		-80		SpeedDistribution_150_160	0			
2012 👻	23104	ClioHigh	02-May-2011 07:56:06	17	1		, 6 km			E Chunking	1571	1590				SpeedDistribution_160_Inf	0			
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on 🗙	23104	ClioHigh	14-Dec-2011 08:48:05	13	2	00:33	, 14 km	## .		S Motorway_TRSL	1590	1638			0	500		1000	1:	500
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	23104	ClioHigh	15-Oct-2011 16:56:58				, 15 km		LUY	Session.30-Apr-2012 21.37.17		· ·				open script				
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1303 1401

First 100 All Select All S Motorway_TRSL

Between 11 mai 2012
23104 ClioHigh 05-Aug-2011 14:04:59

Custom Attribute 🔹 Add Filter 🔄 🔊 Process selected & Export tables Open :

Logger ID

RadarFail

NoFailure

Video Folder 🔘 is 🔘 is not

Conversion Date

Custom Attribute

MeanSpeed

And 11 mai 2012 🔹 👻

▼ 20 & ▼

Custom Attribute

23104

Ranelagh Paul D P O O		96.2 s						
Auteuil	10-Jun-2011 09:08:44							
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THE DO NOT	Vehicle_Speed	37.6 km/h						
Map data ©2012 Google	Throttle	16 Arbitrary						
3000	Engine_RPM	1450 Tr <i>l</i> min						
	DistanceToLeftLaneMark	-1.1 m						
	DistanceToRighttLaneMark	0.65 m						
	Map_SpeedLimit	80 km/h						
	Map_NumofLanes	4 lanes						
	Map_RoadType	FC0 or FC1						

Boulogne

Parc de

2000

Boulogne-Edmond de Rothschild

Jardins du

Inspector

