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ADDFOR - APP PRESENTATION

NVIDIA INCEPTION PROGRAM

IBM Registered Business Partner

Aidia Problem solving with AI

NVIDIA DEEP LEARNING INSTITUTE

DANISI ENGINEERING

VI-GRADE

synesthesia the digital experience company

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SUMMARY

- TIRE DEPTH DETECTOR
  - GOAL
  - FUNCTIONALITY
  - DATA ACQUISITION
- TRACK COACHING
  - DESCRIPTION
  - OVERVIEW
  - FEATURES
  - EXPORT / SEND DATA RAW

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TIRE DEPTH DETECTOR

GOAL

Thanks to device mobile hardware and camera the application is able to detect tire measurements and information by automatically associating them with vehicle data .

Vehicle Fields | Car Plate Detection | Odometer Detection | Data Acquired Visualization | DOT Detection

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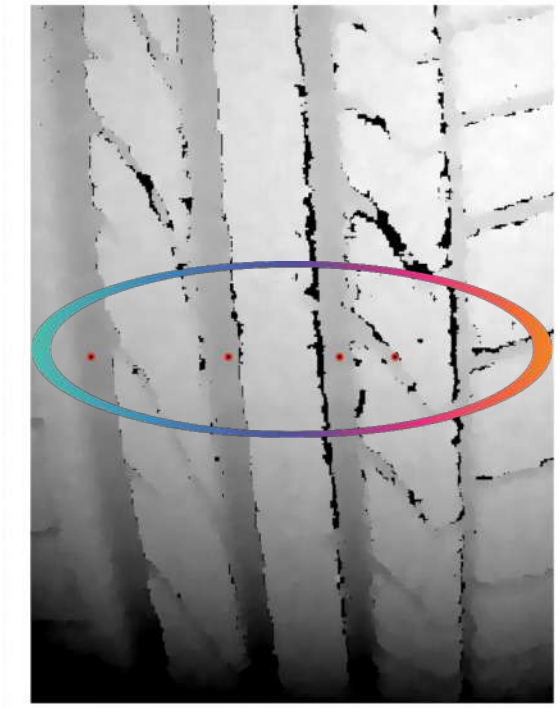
TIRE DEPTH DETECTOR

FUNCTIONALITY

The application, using specific AI algorithms and thanks to the infrared technology of the front camera of the device (iphone), is able to identify the depth for each groove.



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TIRE DEPTH DETECTOR

DATA ACQUISITION

Data saved locally

Data saved in cloud

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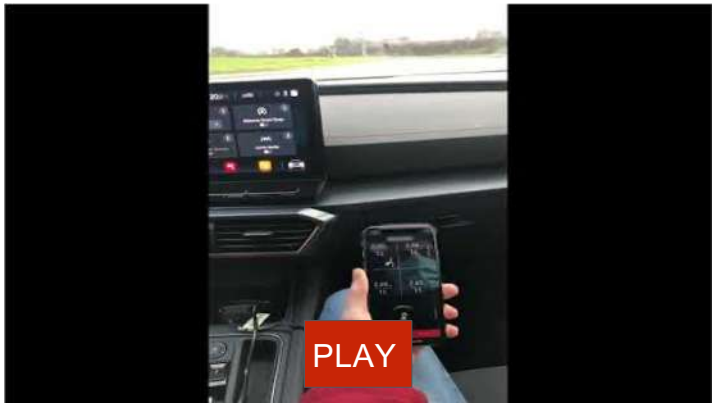
TRACK COACHING

DESCRIPTION

The application, using a dongle dedicated to vehicle communication, is able to use a standard sensors in order to analyze the driver behaviour, recognize critical situations and provide suggest to improve road safety and sports driving performance.



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TRACK COACHING

OVERVIEW

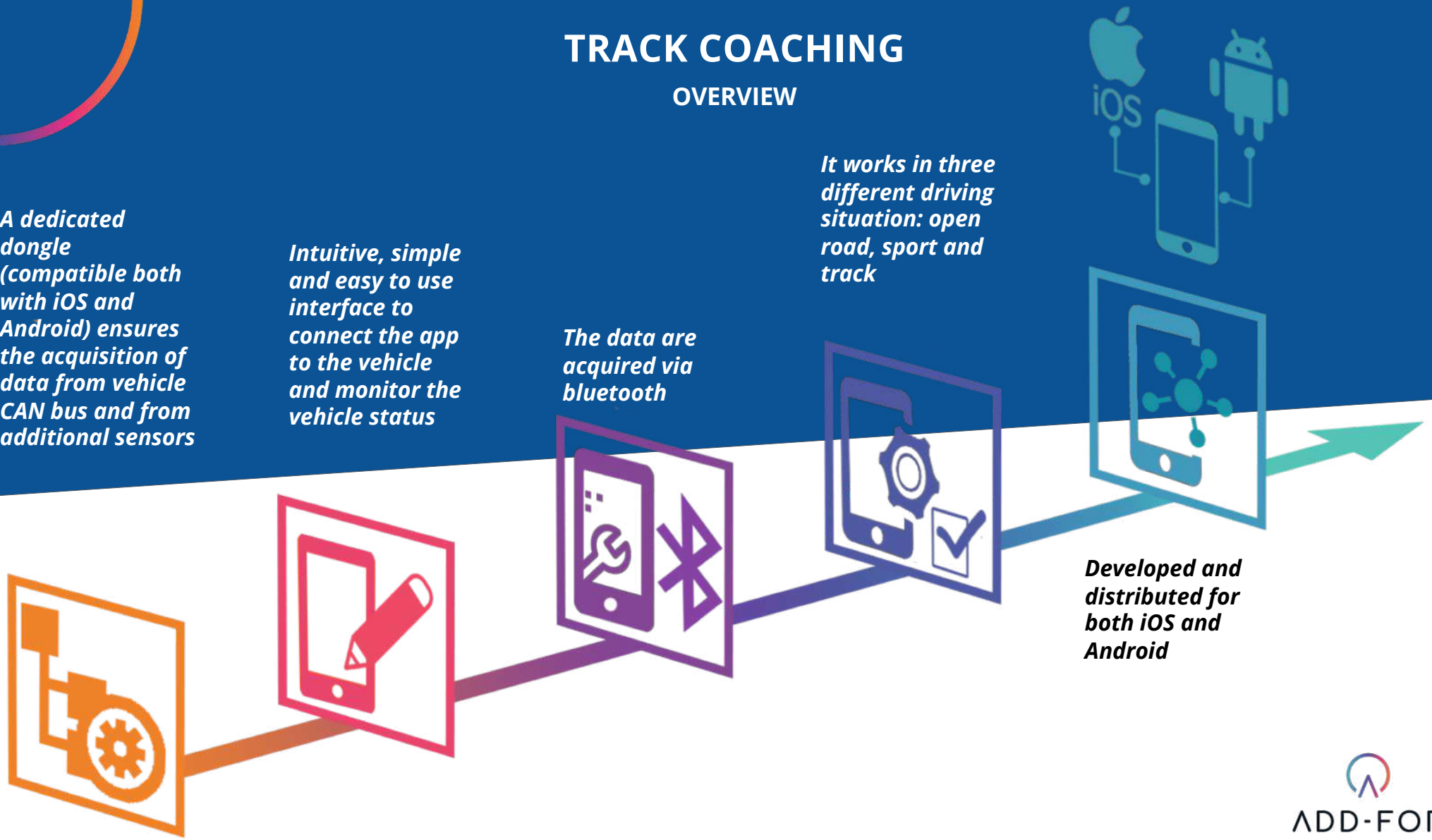
A dedicated dongle (compatible both with iOS and Android) ensures the acquisition of data from vehicle CAN bus and from additional sensors

Intuitive, simple and easy to use interface to connect the app to the vehicle and monitor the vehicle status

The data are acquired via bluetooth

It works in three different driving situation: open road, sport and track

Developed and distributed for both iOS and Android



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TRACK COACHING

FEATURES

- Pre driving checklist to ensure the correct vehicle setup
- Tyre pressure monitoring
- Tyre temperature monitoring
- Tyre wear
- Vehicle side slip angle estimation
- Understeer/Oversteer detection
- Grip estimation
- Report of split times, best ideal lap...

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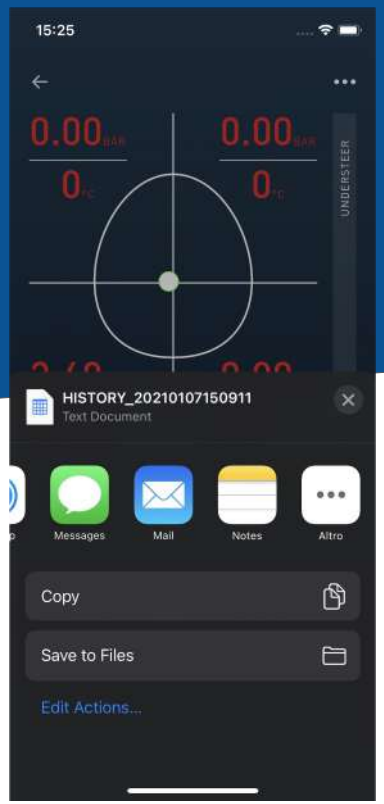
TRACK COACHING

EXPORT / SEND DATA RAW



Timestamp	Latitude	Longitude	GPSSpeed	Ax	Ay	Az	rollr	pitchr	yawr	swa
1605520422718	41.7143745	12.4349251	10.67	-2.43288	-0.10791	10.1043	-0.19	0.24	-0.07	4.4
1605520422819	41.7143745	12.4349251	10.67	-3.14901	-0.51012	10.07487	-0.13	0.24	-0.21	3.6
1605520422918	41.7143745	12.4349251	10.67	-2.96262	-0.46107	9.96696	0.16	0.81	-0.08	3.2
1605520423018	41.7143745	12.4349251	10.67	-2.95281	-0.26487	9.62361	-0.51	1.45	0.01	3.1
1605520423118	41.7143745	12.4349251	10.67	-3.56103	-0.21582	9.78057	0.37	0.35	-0.18	3.1
1605520423218	41.7143745	12.4349251	10.67	-3.78666	-0.23544	10.01601	0.14	0.64	-0.08	5
1605520423318	41.7143745	12.4349251	10.67	-3.76704	-0.67689	10.38879	-0.04	0.52	-0.2	6.1
1605520423418	41.7143745	12.4349251	10.67	-3.61989	-0.53955	9.66285	-0.38	0.55	-0.72	7
1605520423518	41.7143745	12.4349251	10.67	-3.5316	-0.79461	9.84924	-0.37	1.35	-0.75	8.6
1605520423618	41.7144012	12.4348822	22.62	-3.46293	-0.36297	9.9081	0.29	1.64	-1	10.5
1605520423718	41.7144012	12.4348822	22.62	-3.18825	-0.93195	10.12392	0.34	0.05	-1.29	12.4
1605520423819	41.7144012	12.4348822	22.62	-3.37464	-0.85347	10.43784	0.96	0.77	-1.84	14.2
1605520423918	41.7144012	12.4348822	22.62	-3.60027	-0.64746	10.28088	0.3	0.18	-2.27	15.7
1605520424018	41.7144012	12.4348822	22.62	-3.36483	-0.97119	10.45746	-0.17	1.33	-2.8	16.8
1605520424118	41.7144012	12.4348822	22.62	-4.0221	-1.22625	10.06506	1.81	-0.48	-3.08	19.2
1605520424218	41.7144012	12.4348822	22.62	-3.89457	-1.28511	9.49608	0.87	0.91	-3.73	23.1
1605520424318	41.7144012	12.4348822	22.62	-2.5506	-1.71675	10.06506	0.3	1.57	-4.48	27
1605520424418	41.7144012	12.4348822	22.62	-3.76704	-1.50093	9.50589	-0.02	1.3	-5.23	31.6
1605520424518	41.7144012	12.4348822	22.62	-2.79585	-1.7658	10.17297	-0.14	0.01	-6.4	35
1605520424618	41.7144432	12.4348001	36.88	-2.43288	-1.68732	9.82962	0.5	2.35	-7.58	38.8
1605520424718	41.7144432	12.4348001	36.88	-3.08034	-1.18701	10.43784	-0.57	1.86	-8.53	40.3
1605520424818	41.7144432	12.4348001	36.88	-2.81547	-3.0411	9.43722	1.27	1.61	-9.73	41
1605520424918	41.7144432	12.4348001	36.88	-2.65851	-2.90376	10.27107	1.07	2.46	-9.9	42.3
1605520425018	41.7144432	12.4348001	36.88	-2.81547	-3.09996	9.36855	0.55	2.94	-10.38	42.8
1605520425118	41.7144432	12.4348001	36.88	-2.38383	-2.90376	10.52613	1.44	0.97	-11.09	42.5
1605520425218	41.7144432	12.4348001	36.88	-2.39364	-3.20787	9.81	-0.73	1.9	-11.25	41.9
1605520425318	41.7144432	12.4348001	36.88	-2.04048	-3.22749	9.75114	0.44	2.79	-11.15	40.3
1605520425418	41.7144432	12.4348001	36.88	-1.05948	-3.64932	9.86886	0.44	2.81	-11.23	39.3
1605520425518	41.7144432	12.4348001	36.88	-0.6867	-3.68856	9.87867	0.21	2.85	-11.45	39
1605520425618	41.7144928	12.4346733	48.47	-0.43164	-2.92338	9.86886	-0.96	3.62	-10.93	38.2
1605520425718	41.7144928	12.4346733	48.47	-0.08829	-2.88414	9.56475	0.38	2.96	-11.28	35.3
1605520425818	41.7144928	12.4346733	48.47	0.15696	-2.82528	10.46727	-0.33	2.02	-10.95	33.1
1605520425918	41.7144928	12.4346733	48.47	0.07848	-3.02148	9.96696	-3.48	1.82	-9.94	33.2
1605520426018	41.7144928	12.4346733	48.47	-0.04905	-2.99205	9.89829	1.42	2.33	-9.66	33.2
1605520426118	41.7144928	12.4346733	48.47	0.16677	-3.03129	9.63342	-2.5	2.46	-9.64	33.4
1605520426218	41.7144928	12.4346733	48.47	0.31392	-2.61927	9.53532	-2.04	1.5	-10.05	33.5

Save on the local memory

Send by email

Send to a PC by Airdrop

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