

JATO Dynamics Ltd.

Who are we?

- Founded in 1984
- World's most timely, accurate and up-to-date information on vehicle specifications and pricing, sales and registrations, news and incentives.
- Represented in 50 countries
- Unique local market expertise
- Intelligence used by OEM, Leasing Companies, Consumer Web Portals
- Accuracy high quality and precise market information
- Timeliness prompt response to market events
- Completeness all information our customers require





JATO Dynamics Ltd. Methodology

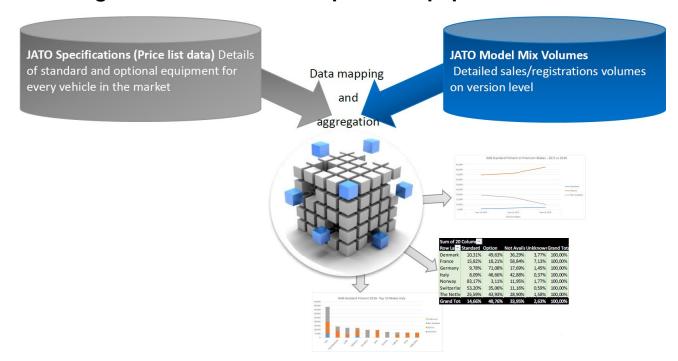
JATO Specifications Database

- All prices & equipment as offered by each manufacturer in a specific market.
- Sourced from official sources.

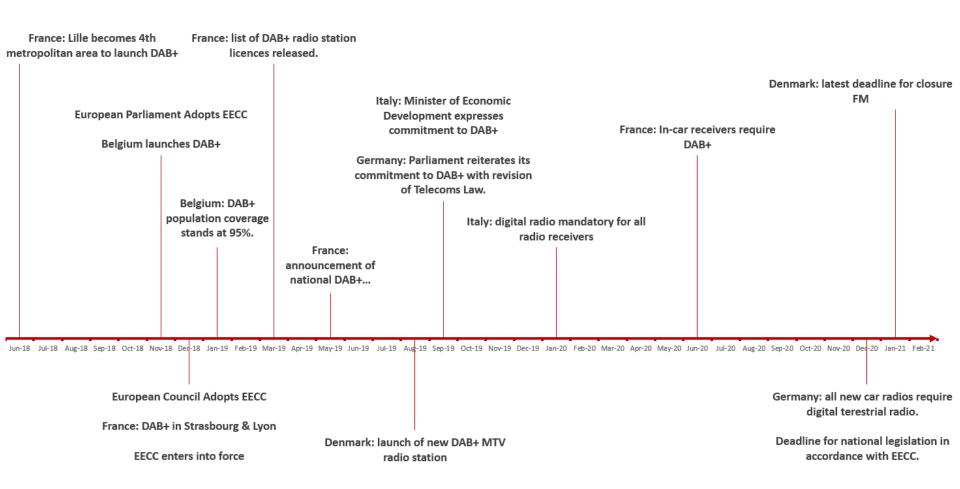
JATO Modelmix & Volumes

- Sales per market
- Separate build
- Sourced from official sources.

Combination of both: exact number of car sales per country, with insight into standard and optional equipment.



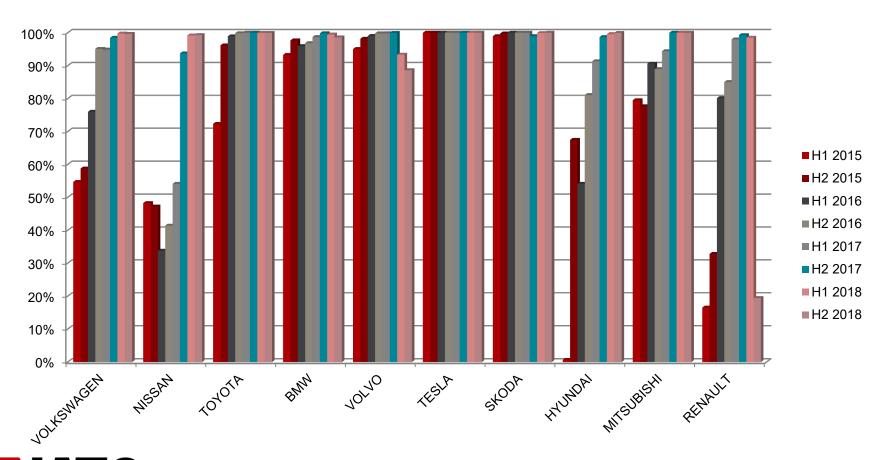
Timeline





Norway

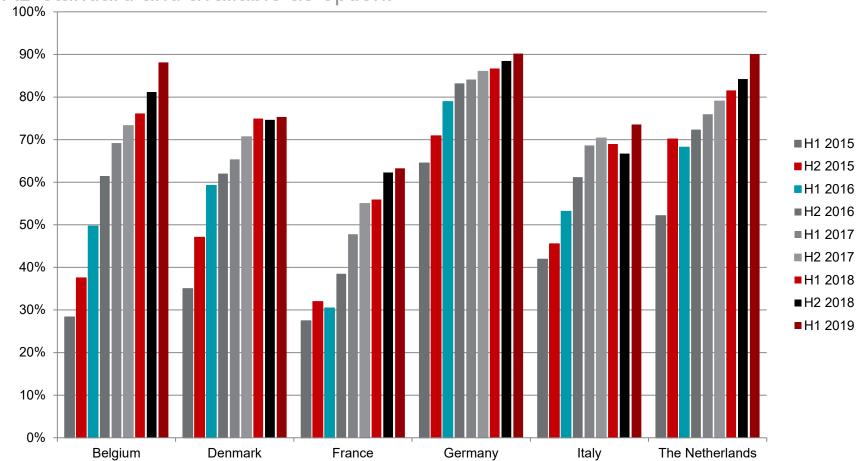
DAB standard and available as option (2018)





Full market trend availability

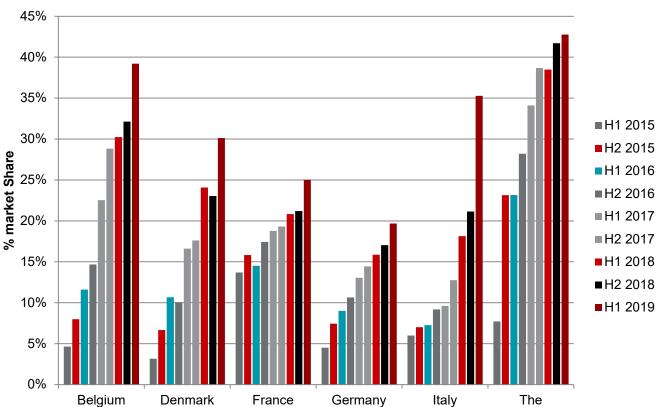
DAB standard and available as option.





DAB as standard fitment

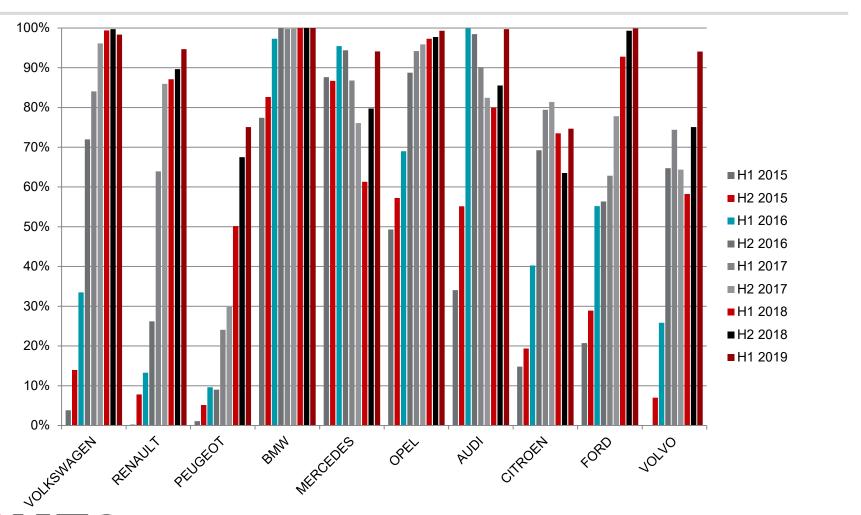
DAB/DAB+ as standard fitment									
	H1 2015	H2 2015	H1 2016	H2 2016	H1 2017	H2 2017	H1 2018	H2 2018	H1 2019
Belgium	13419	16999	35911	33755	72641	64666	100220	70114	121729
Denmark	3316	6842	12472	10670	20600	17266	29164	22578	36961
France	139295	142396	160068	158581	212313	187608	246458	207884	289554
Germany	73063	118156	156022	172158	233221	238796	291935	272035	363902
Italy	52732	49845	75739	71732	109225	106277	203587	166865	382729
The Netherlands	15669	57574	45126	53454	77213	73439	98281	81155	97960
Grand Total	297494	391812	485338	500350	725213	688052	969645	820631	1292835



Netherlands

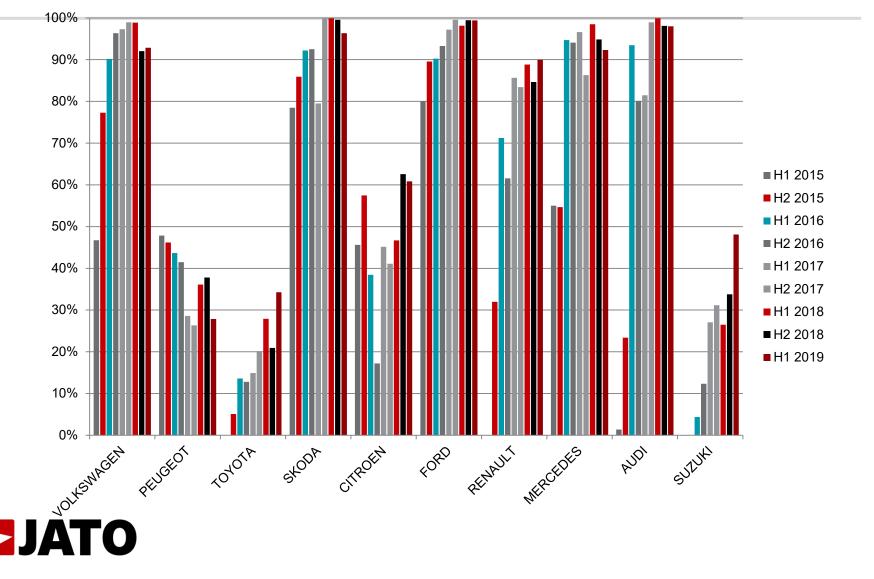


Belgium: DAB standard in top 10 sold cars



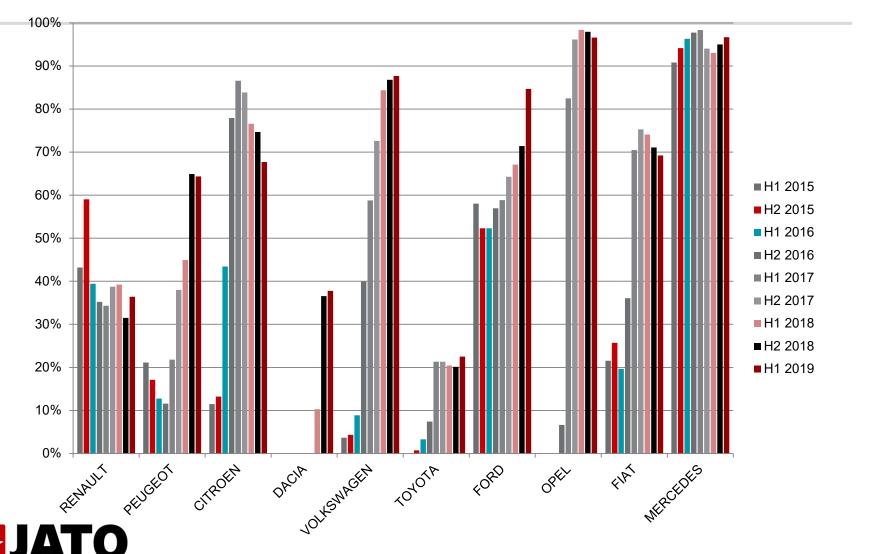


Denmark: DAB standard in top 10 sold cars

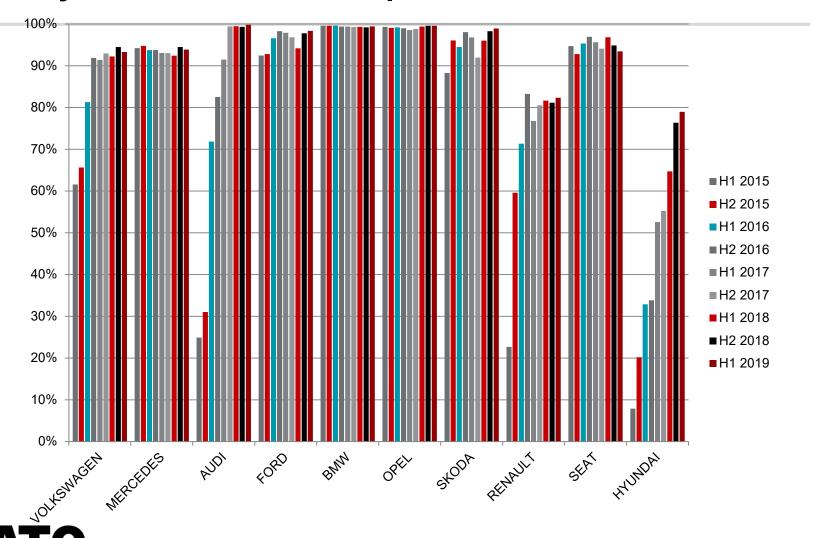




France: DAB standard in top 10 sold cars

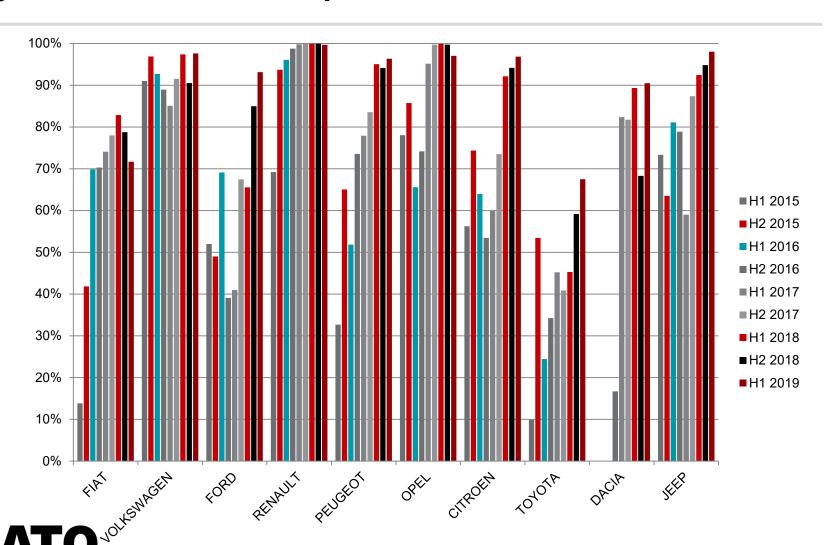


Germany: DAB standard in top 10 sold cars

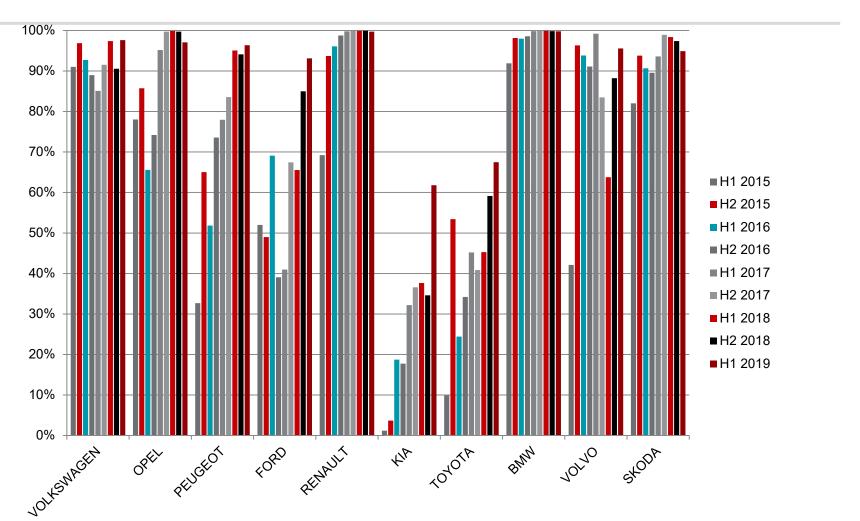




Italy: DAB standard in top 10 sold cars

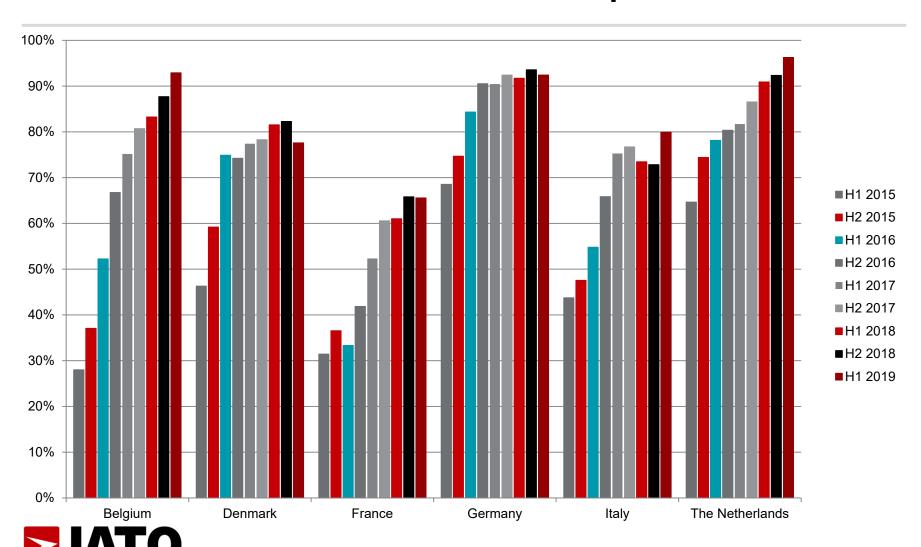


The Netherlands: DAB standard in top 10 sold cars

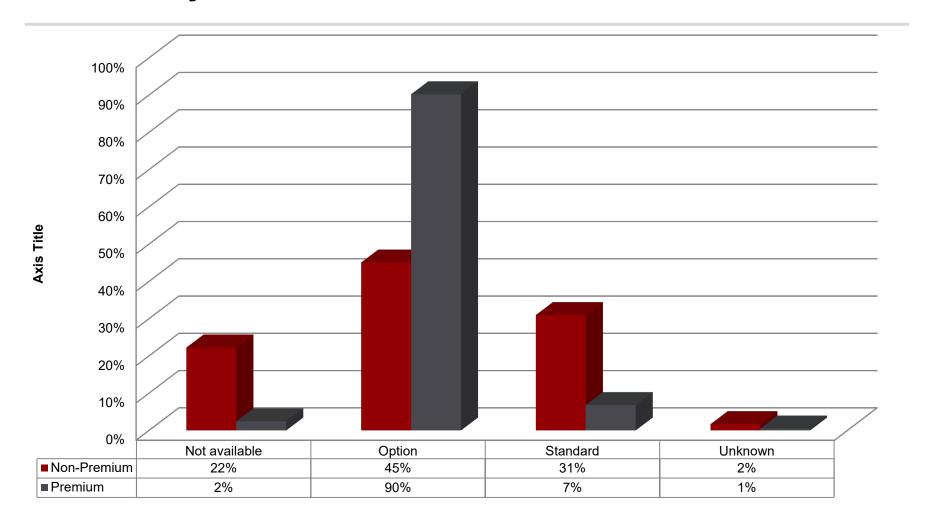




Full Market Trend: DAB standard in top 10 sold cars

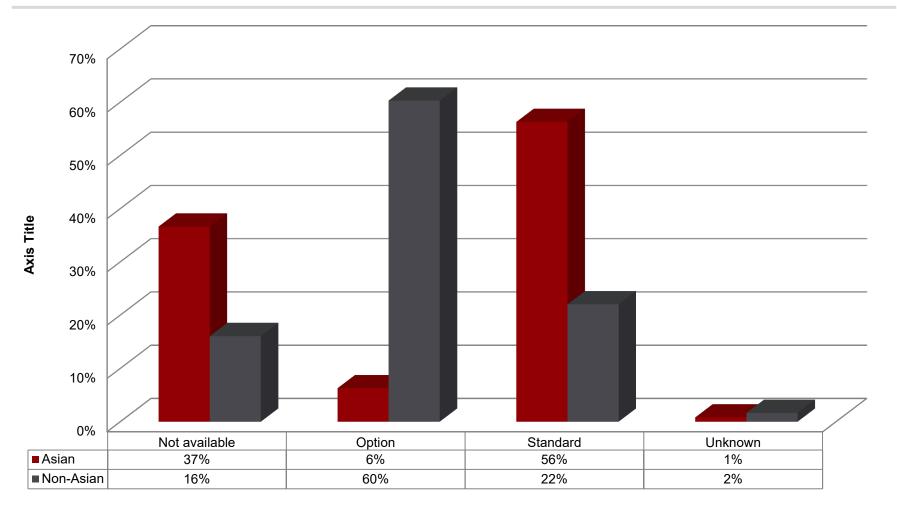


Availability of DAB+: Premium vs Non-PremiumH1 2019





Availability of DAB+: Asian vs Non-Asian H1 2019





Future

The age of the connected car has arrived.

Much more than

- Bluetooth
- Apple CarPlay
- Android Auto
- Apps
- Traffic information

Bi-directional information exchange is key.







Future

Just looking at the radio user experience

DAB+ can provide:

- Free reception
- Station name & logo
- Radiotext
- FPG
- Slideshow

Additional user requirements:

- Link with online content
- HQ content
- Social media integration
- Seamless interaction with smartphone



Future

More factors at play:

- OEM & radio stations increasing interested in user profiles
- Vehicle in touch with maintenance network
- Community-driven services
- Traffic jam assistance
- Vehicle updates
- Vehicle-to-vehicle (V2V)
- Vehicle-to-infrastructure (V2I)
- Predictive parking

Coexist with Over-the-air (OTA) technology

Hybrid radio

- DAB+ broadcast signal carries audio
- Internet connection connects multimedia and interactivity





