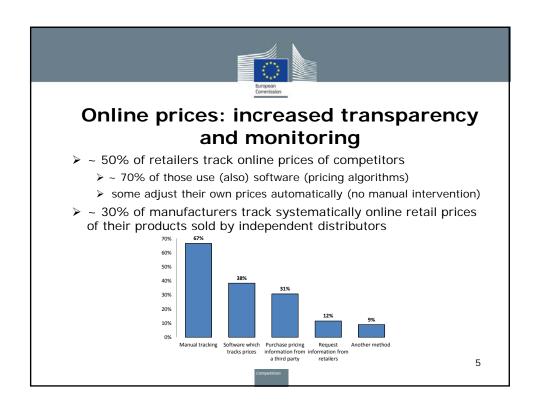
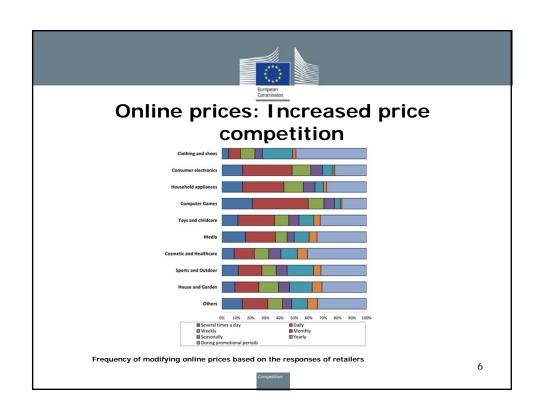


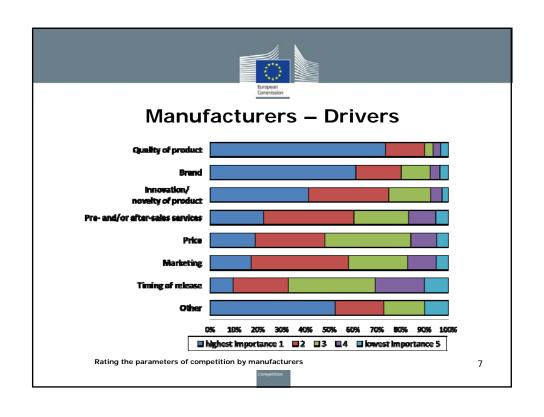


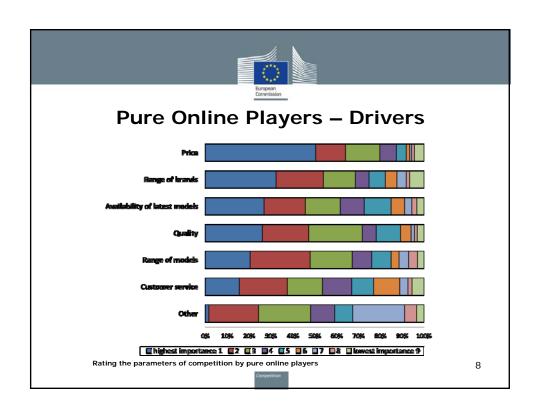
E-commerce sector inquiry

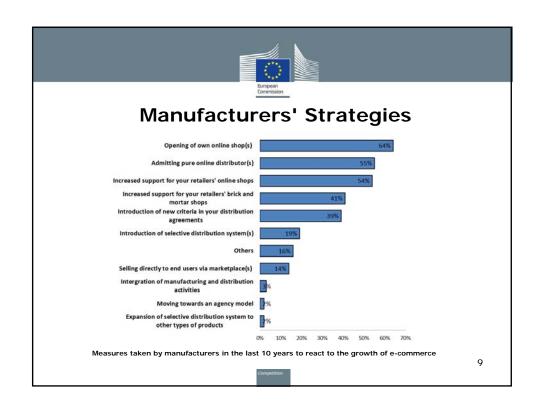
- > Focus on consumer goods and digital content:
 - > Better understanding of the market and trends
 - > Identifying possible competition issues in e-commerce
- ➤ Legal basis Article 17 of Regulation 1/2003
- > Process:
 - ➤ Launched in May 2015
 - ➤ Questionnaires to stakeholders (about 1 800 respondents)
 - > Paper on Geo-Blocking published March 2016
 - ➤ Preliminary Report published September 2016
 - ➤ Final Report May 2017

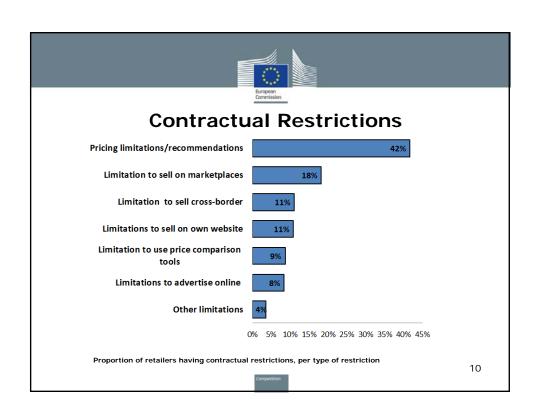














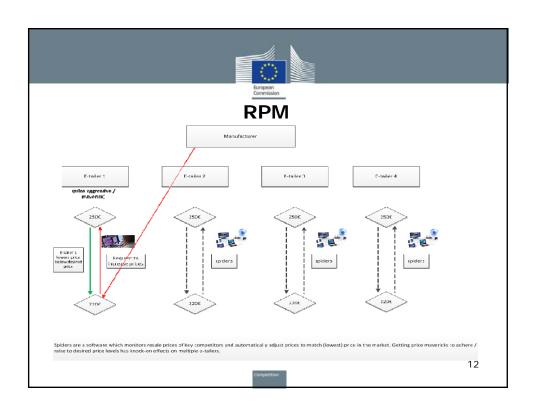
Pricing Algorithms

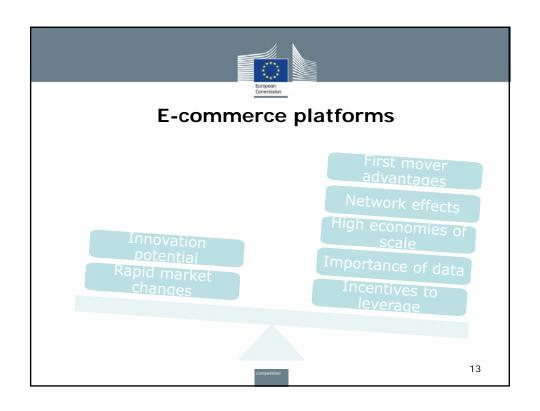
May increase price competition, but potentially ...

- facilitate horizontal collusion
- > Hub and spoke (usage of same algorithm)
- > incentivize RPM practices
- > Artificial Intelligence and tacit collusion?

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Competition







In fast-growing sectors/frequent market entry/short innovation cycles: large market shares may turn out to be ephemeral (Facebook/WhatsApp merger decision; T-79/12, Microsoft/Skype **but** Google, Microsoft)

Factors to consider:

- Multi-homing
- > Platform competition
- > Preinstallation



(Big) Data

- Personal data = identifies any individual through any parameter
- ➤ Not all big data is personal data
- ➤ Big data → useful to improve services
- ▶ Personal data → useful for targeted advertising

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Data - 4 different perspectives

- > Data as a currency
- Data protection as quality (= mostly about personal data)
- Data as an input/asset (= mostly about big data)
- Data as an output



Market definition: addressing the role of data

Market definition: the traditional inquiry into demand side and supply side substitutability is relevant also for data-driven markets with a high rate of innovation.

There is no no such thing as a *free lunch*: data is a currency

Traditional market definition tools often rely on price, but also **other parameters of competition** matter (e.g. quality). It is also possible to define markets when there is no price: e.g. by reference to the product's characteristics or intended use.

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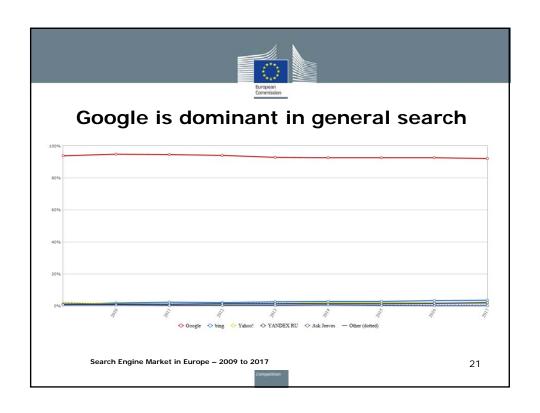
Market power: addressing the role of data

Market power: looking at **data as an asset**. Does the accumulation of data give an insurmountable advantage?

- ➤ Is data a significant component in the attractiveness of the relevant product?
- > Is data exclusive or easily replicable?
- > Does the value of the data decrease over time?









Google is dominant in general search

- > Barriers to entry and expansion
 - > significant investments necessary
 - > importance of the volume of queries to provide relevant results
 - > new entrant to match investments in product improvements
 - > positive feedback effects
- ➤ Infrequency of multi-homing and existence of brand effects
 - minority of users in the EEA multi-home
 - > users trust in the relevance of results provided by Google
- ➤ Lack of countervailing buyer power



Conclusion

- ➤ E-commerce presents new challenges for competition law enforcement
- > Tools are flexible enough