

UNIVERSIDAD POLITÉCNICA DE MADRID





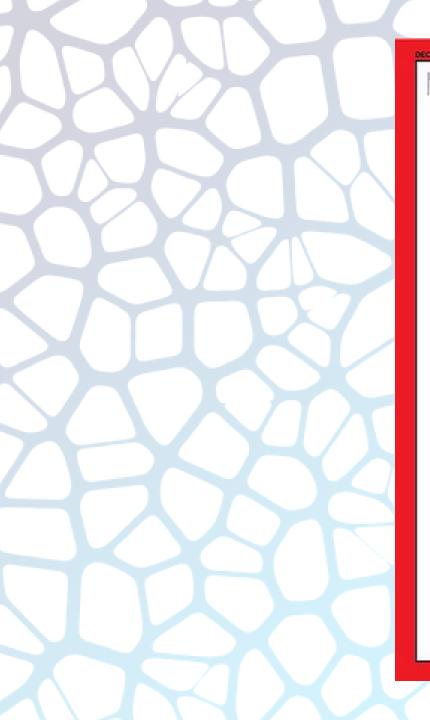
GRUPO DE INVESTIGACIÓN EN INSTRUMENTACIÓN Y ACÚSTICA APLICADA



# Towards the assessment of community response to environmental issues through social media

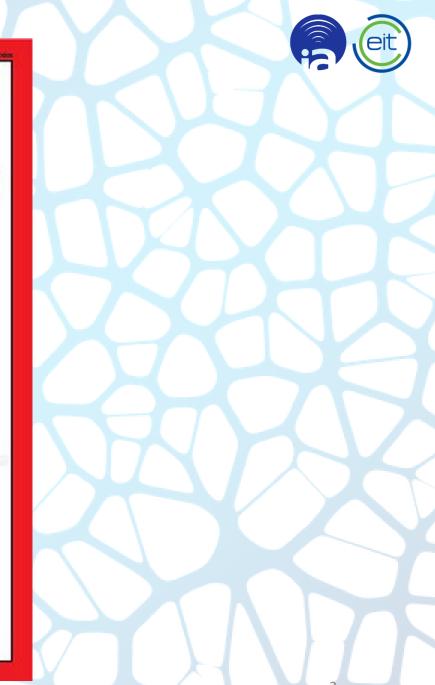
#### Luis Gascó Sánchez

Bachelor Degree in Telecommunications Engineering. Major in Sound and Image (Universidad Politécnica de Madrid) MsC in Acoustic Engineering in Industry and Transport (Universidad Politécnica de Madrid) Master in Business Intelligence and Big Data (Escuela de Organización Industrial)





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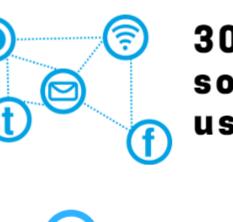






7600 million people





 $(\succ$ 

3030 million social media users

5.54 social media accounts

quarter in 2017

## The Futurium

# Policy Making 3.0

# **Crowdsourcing issues**

Engagement Channels Activists Lack of iterations



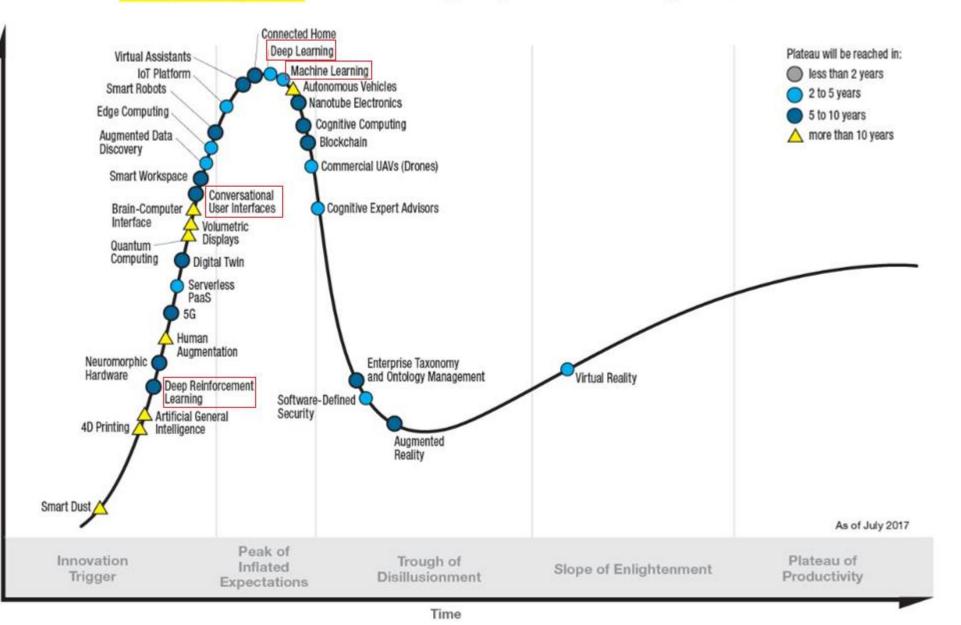
# Brain crowding





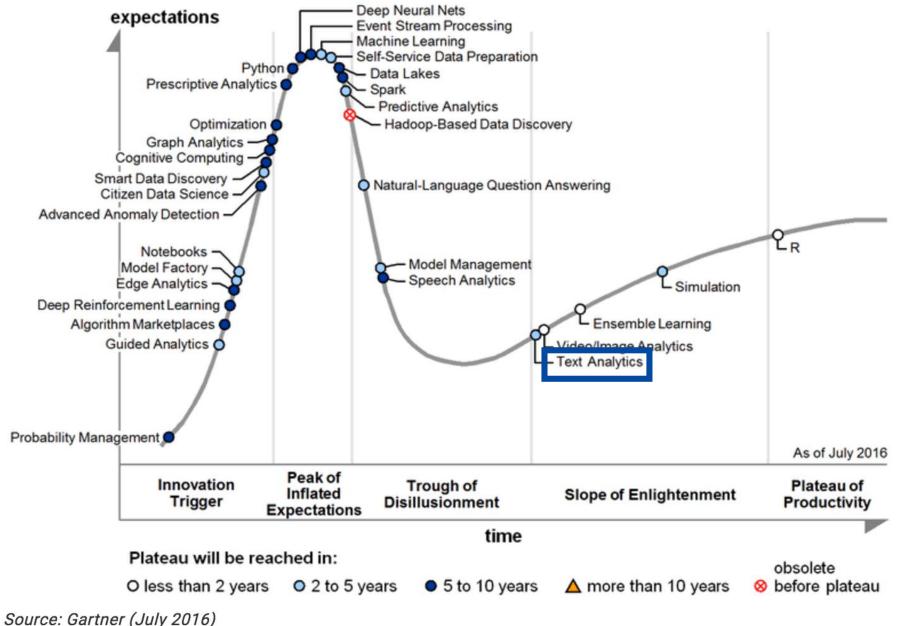
## Gartner Hype Cycle for Emerging Technologies, 2017

Expectations



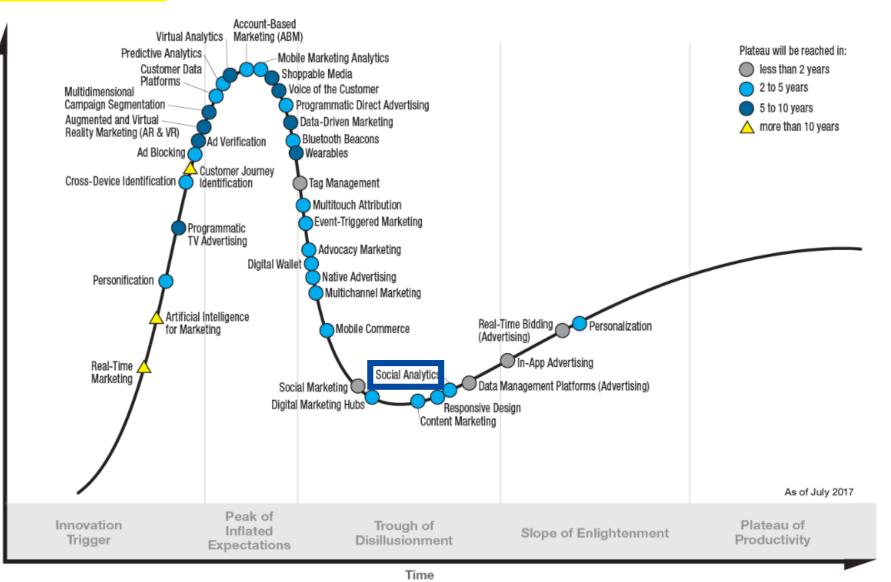


#### Figure 1. Hype Cycle for Data Science, 2016





### Hype Cycle for Digital Marketing and Advertising, 2017

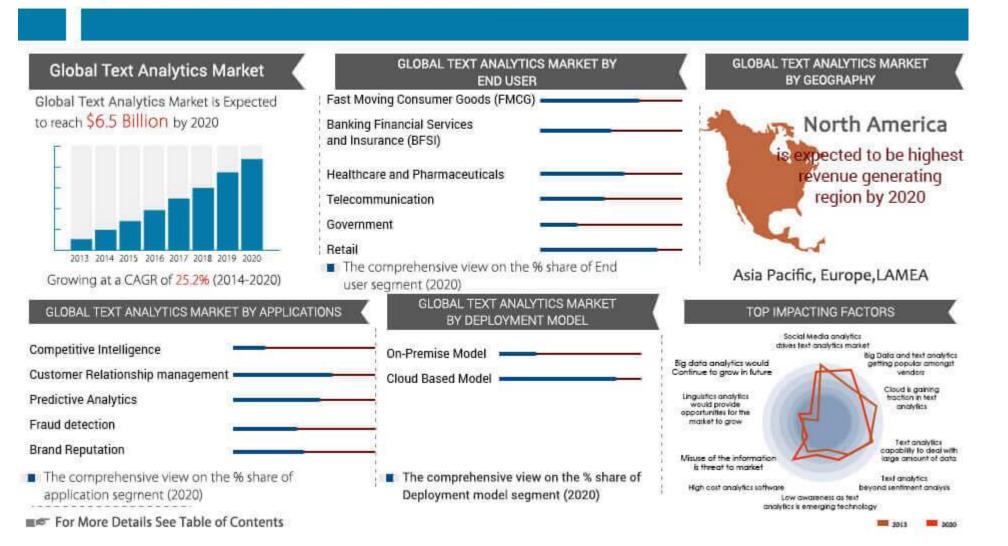


Expectations



# **Global Text Analytics Market**

Segmentation and Forecast, 2013 - 2020





N lion eoplett 

Image: Manel Torralba- Lini

# We live in a connected world

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METRO

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Online Social Networks

> Noise data Complaints data

Open data platforms 

Present

# Crowdsourcing

People act like human sensors voluntarily



# **Surveys**

**Future?** 

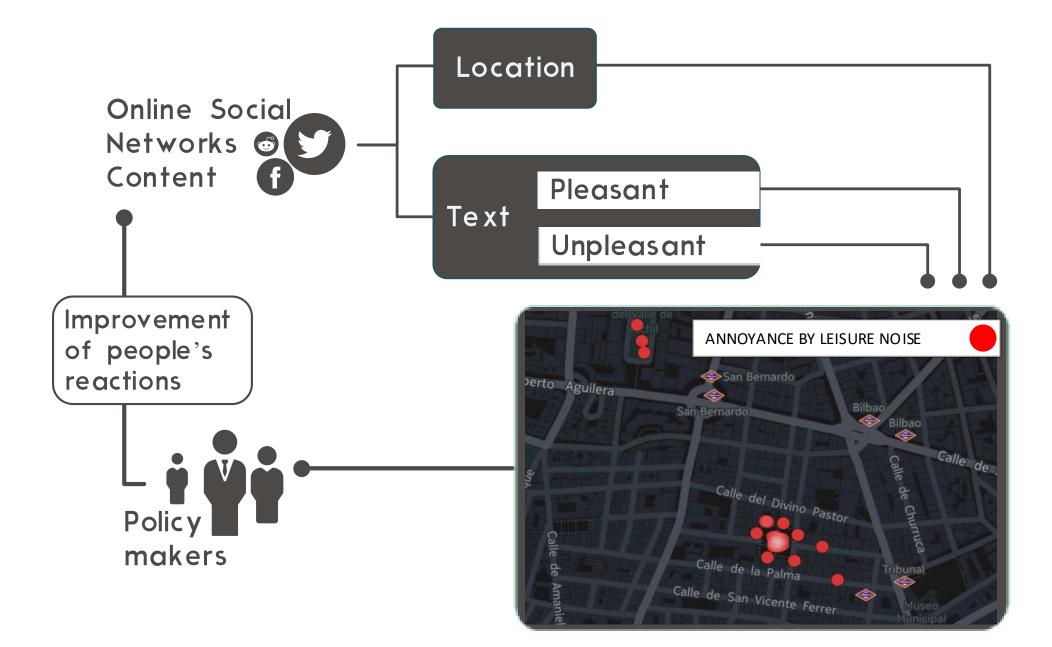


**Social computing** People express their feelings directly on Social Media



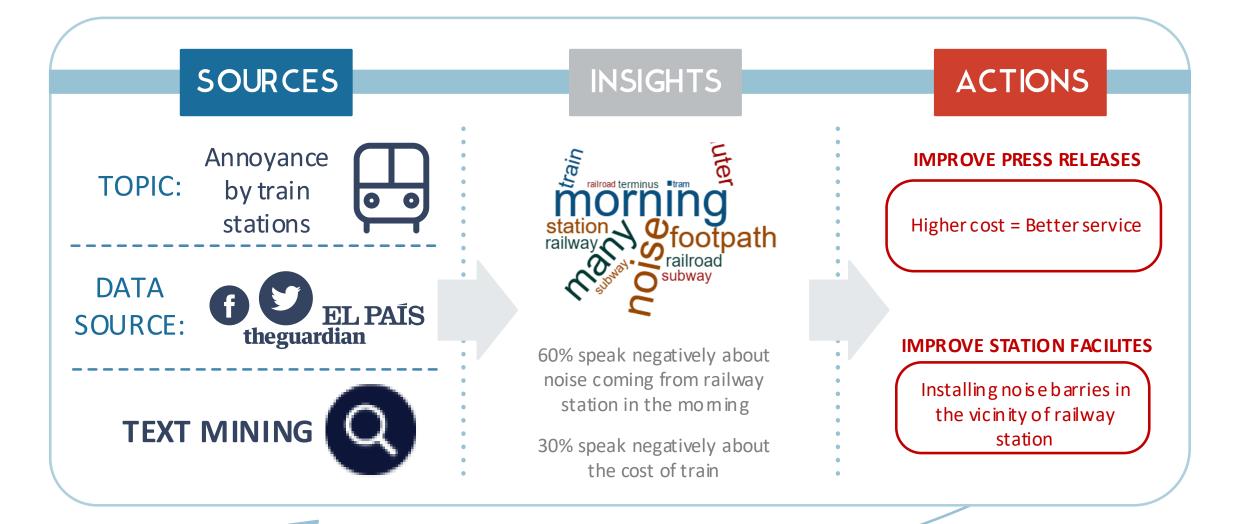
## Noise annoyance monitoring





## Transport infrastructures





TRANSPORT INFRASTRUCTURE ACCEPTANCE INCREASEMENT

## Our method





-Yes

#### Which is the **noise source**?

-

.

Indoor

Music

Nature

Transport

Human Mechanical

18

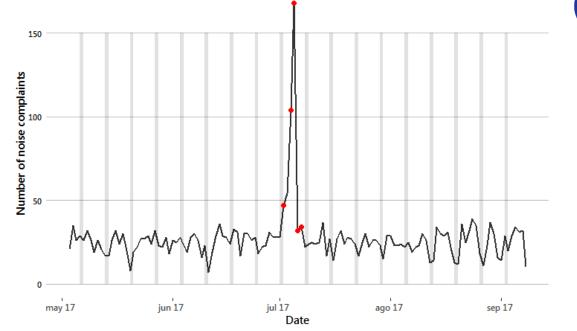


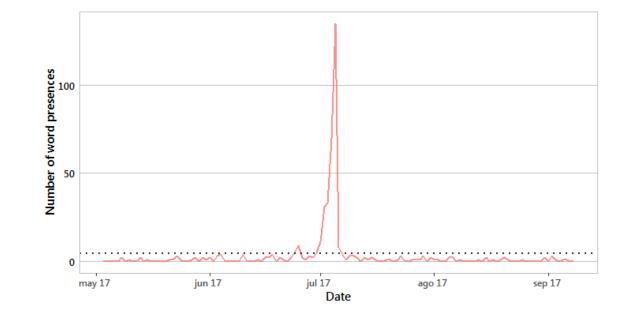
#### Complaint trend analysis

- Effect of noise policies
- Noise attitude to noisy events

Alarms

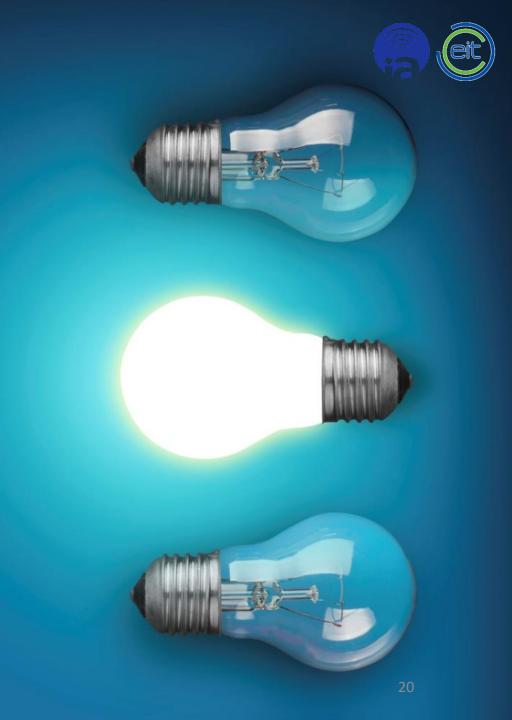
- Based on word analysis
- Combination with trend analysis





# Conclusions

- Social media is a significant source of data which we can use to get valuable information for policy makers and city managers.
- Citizens are using social media as a channel to express their opinions about different topics, from politics to environmental issues.



<b>Facebook</b>	<b>Instagram</b>	<b>Twitter</b>
249,998,400	174,999,600	26,107,200
Likes	Likes	New tweets
You Tube Youtube 451,461,600 Video views	<b>Pinterest</b> 583,200 Articles pinned	t Tumblr 14,400 New users
<b>Airbnb</b>	<b>Booking</b>	<b>TripAdvisor</b>
43,200	43,200	237,600
Bookings	Unique visitors	Reviews





Twitter: @LuisGasco



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#### Luis Gascó Sánchez



luis.gasco@i2a2.upm.es / luisgascosanchez@gmail.com

- in https://www.linkedin.com/in/luisgascosanchez/

**RG** https://www.researchgate.net/profile/Luis\_Gasco\_Sanchez

@luisgasco

