

- How does social media works as a mobile participation tool in a «self-organizing system»?
- What is the role of the social media in decision making process?
- What can we obtain from different sources -Facebook, Twitter,
 Instagram and Foursquare-?
- How does this process occur in Turkey?





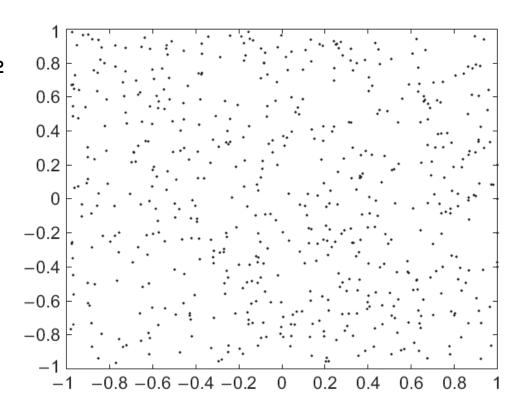
- Definition of a Self-Orginizing System
- Evaluation of the role of social media in decision making processes
- Scope of different tools
 - Facebook, Twitter, Instagram and Foursquare
- Discussion over a recent urban management process in Turkey
 - Twitter usage in one of the current urban management processes
 - Hastag analysis





Self Organization:

- primary purpose of the notion of self-organization:
 - the discovery of independently acting patterns of the environment without the intervention of a teaching input
- implementation
 - adaptation must be based on information that is available locally
- three principles self-reinforcement, competition, cooperation
- Enduring process



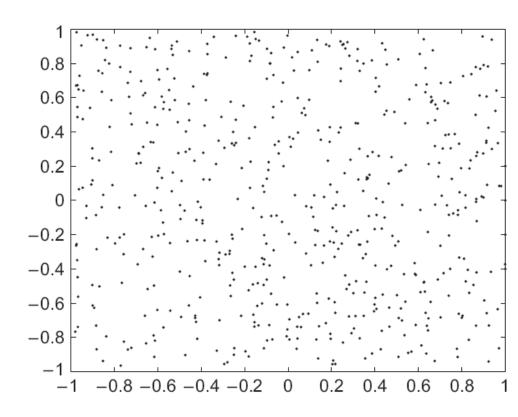




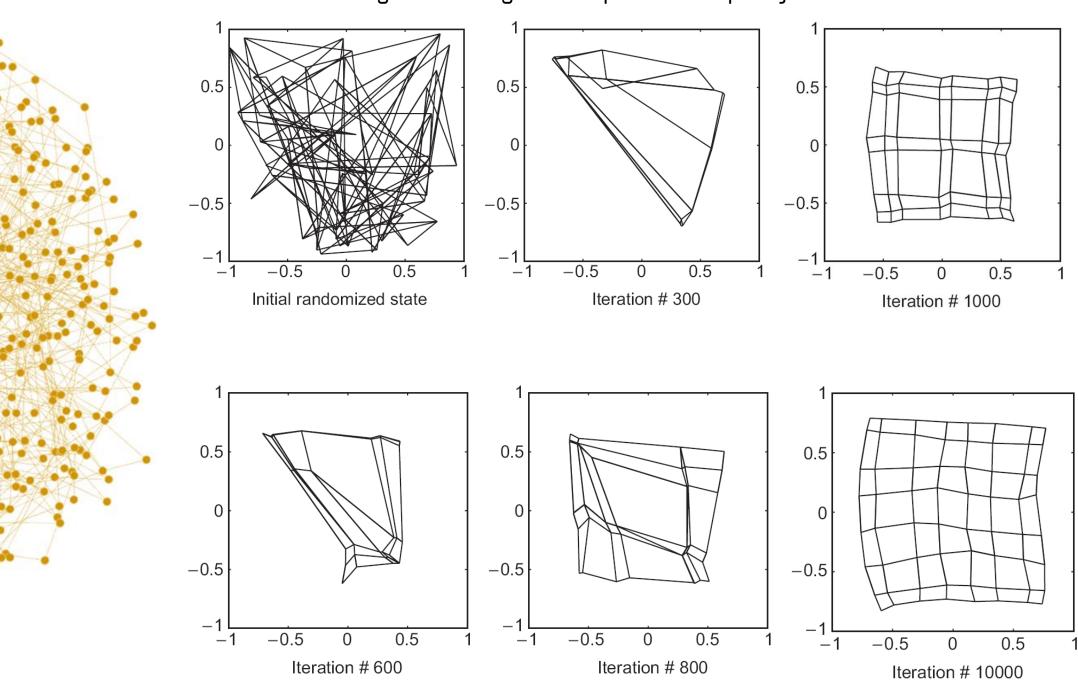


Requirements:

- inputs should be exposed to a sufficient number of triggering factors
- only the winning input and its neighbors adapt the changes easily
- the resulting adjustment enhances the responses to the same or to a similar input that occurs subsequently



Patterns changes according to the inputs and frequency of recurrence





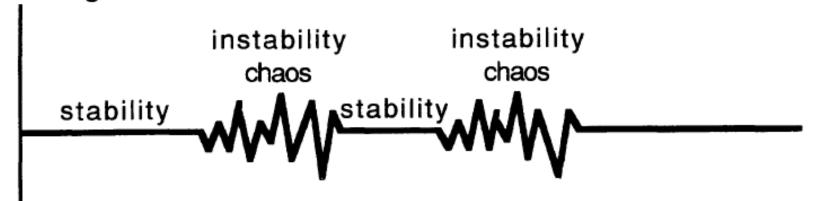
«Self-organizing systems, be they cities or the individuals that form their subsytems, are open, complex and are characterized by circular causality, reproduction and structuration» (Juval Portugali 1999)

- the evolution of open and complex systems involve
 - a long period of 'steady state'
 - followed by a short period of strong chaos

Time

• from which the system re-emerges to a new level of steady state and structural stability, and so on..

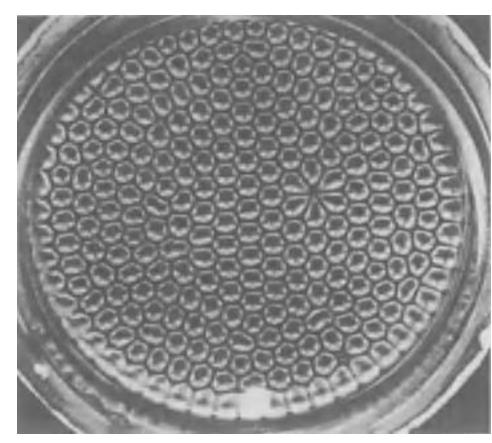




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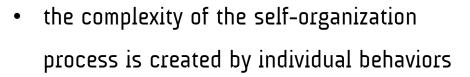


«In certain situations external forces acting on the system do not determine/cause its behavior, but instead trigger an internal and independent process by which the system spontaneously self-organizes itself:» (Juval Portugali)



Christine Bénard experiment (1996)

the spatial order appears spontaneously, by means of self-organization.



- the action get the power from below, which can be defined as a bottom-up process
- the process is shaped by the social and physical environment -it has expanded since the virtuality has changed the environmental boundries -
- public protests triggered by a government
 act provide an example and reflect the
 growing expectations of citizens as well as
 their reactions against the issues that they
 were affected

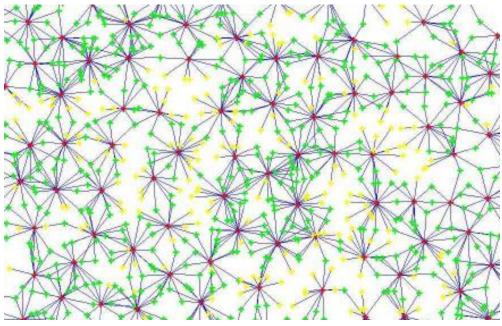






Social Media As A Source of Self Organizing City:

- using the social media with a communicative approach enables both the administrators and citizens to spread the necessary information to the larger numbers of individuals
- the social media interfaces such as Facebook and Twitter
 hold a great potential for a self-organizing process by
 reflecting personal experiences into the real world and
 provide information about collective trust and satisfaction
- this big data obtained from social media can be seen as a part of complexity theory and as a virtual self-organizing system



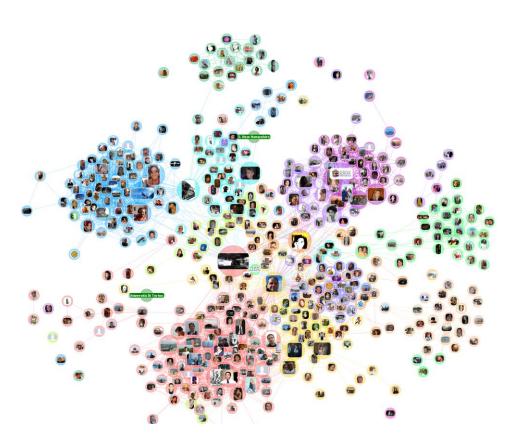


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• information spread through social media reaches random passive users and allows remote participation

 this creates a certain degree of knowledge and increase in the capacity building

people tend to support the planned policies and projects
 when they are involved in the decision-making process





Purpose of Using Different Tools:

How can governments benefit from big data?

Facebook	Twitter	Instagram	Panaromio	Foursquare
 the number of mentions comments likes followers 	 the number of mentions comments /tweets likes followers hashtags 	 the number of photos likes followers hashtags 	the number of photoslikes	the number ofcheck-insphotos
				an urban area
the urban concentration areas the urban concentration areas				

vast information on general public opinions and different approaches of various groups

profile information including gender, age, mobility and location

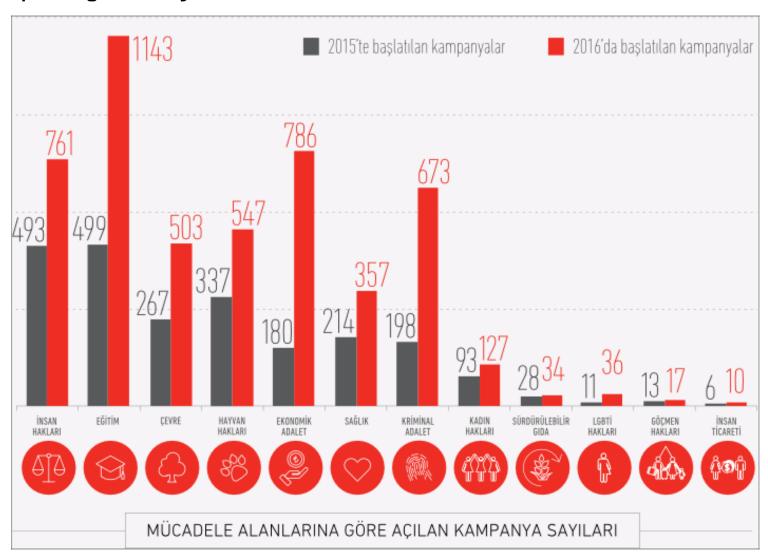




- the main idea of Twitter is based on sharing any information with a limited number of characters
 - multi-language,
 - more than 300 million active users monthly.
 - 500 million, 140 characters long tweets every day

- provides a
 - certain level of simplicity,
 - user-friendly interface, and
 - high intensity of user contributions
 - powerful source for analyzing citizens' sensitivity on a certain issue in a particular location

What Is Hapenning In Turkey?



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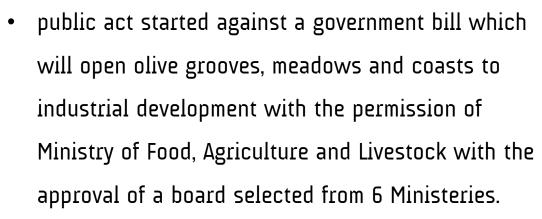












- the proposed regulation will be valid for each city
 that has one of these land uses and
- all initiatives that has industrial registry certificate will allow to build a facility on the site without paying taxes.
- The bill was proposed in 2002 for the first time and rejected 6 times since then







- its economic results in agriculture and
- social destruction for olive producers in the country
- the public act spread in the spring of 2017 and the government agreed to make changes in the bill
- the Twitter played an important role in the expansion of the reactions









- according to the data obtained from the tweets the most
 of the users tended to write a custom tweet with the
 - #ZeytinHayattır (olive is life),
 - #zeytinimedokunma (do not touch my olive),
 - #zeytinağacı (olive tree),
 - #zeytinmilliservettir (olive is national wealth),
 - #zeytinbarıştır (olive is peace),
 - #birliktemümkün (it is possible together),
 - #zeytin (olive) hashtags

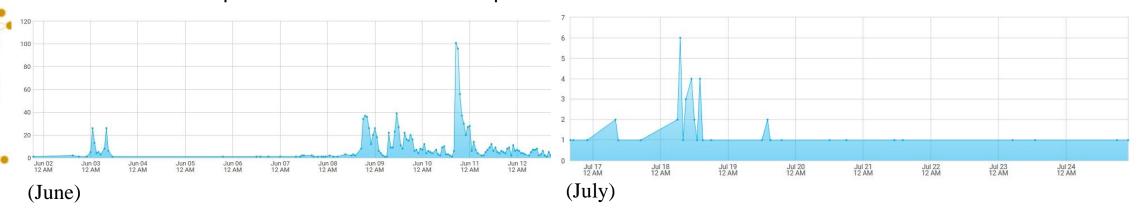


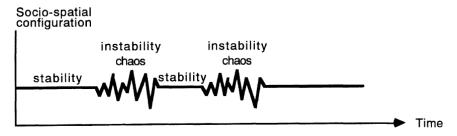


- almost 40% of the users retweeted the mentions
- most of the users linked their tweets to the change.org campaign
- it has seen that approximately 40% of the tweets sent via mobile phones, this followed by desktop computers

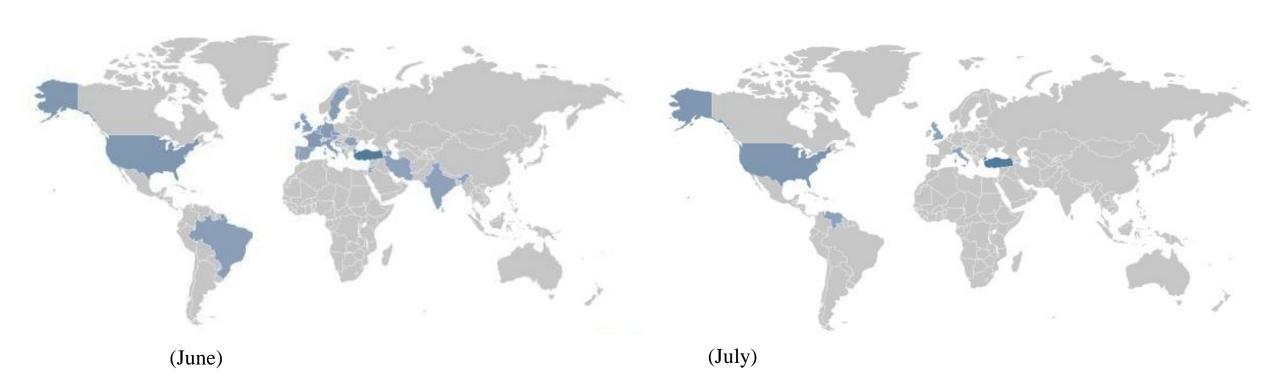


- the government organized a public meeting on 31st of May in 2017 and announced that they are not going to withdrawal the proposal
- one week later tweets related to the bill reached at the peak point
- the process mainly conducted by the citizens who will be directly affected by the change, and shortly it turned out to a public reaction on a virtual platform.

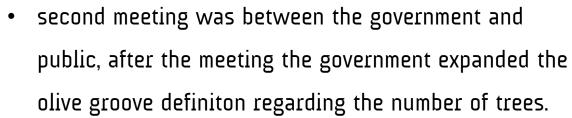




- the tweets sent in a week reached approx.
 - more than 1000 people, and
 - more than 100.000 impressions
- the area covered mainly Turkey but also United States, Brazil, some parts of Europe, Irland, Persia and India. This expansion also indicates the virtual local borders.



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- accordingly the site will be approached as an olive groove even if there is one olive tree on the land
- the penalties increased in case of damaging the trees
- the land uses including housing and touristic facilities were banned on the grooves
- the NGOs were included to the conservation board



Kamuoyu baskısı zeytin kıyımını durdurdu!

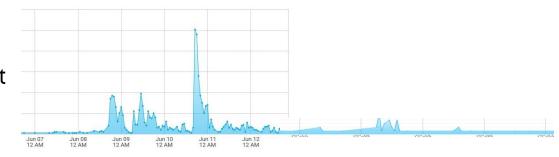
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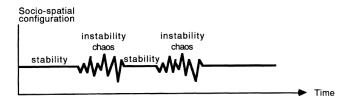






- once the communication between citizens and government has started, the process moved to another stage, and the role of the Twitter transformed from being a platform for the public act to a tool for the information flow.
- the number of tweets started to decrease
- after the second meeting bill was drawn back for re-evaluation





Results and Discussion

- The big data obtained from social media is certainly enriching the social interaction, the function of cities, and planning and decisionmaking experiences
- But it is important to integrate these cost and time effective technologies into existing methodologies for strengthening the public engagement
- There might be some accessibility concerns on the usage limitations in terms of the income and age

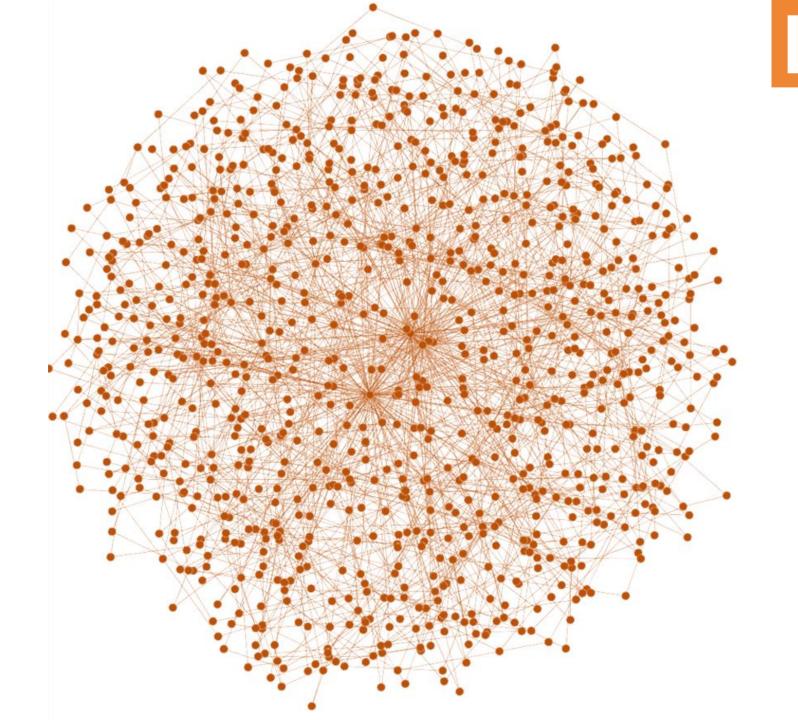
- The social media should be approached as one tool out of others
- It is still an emerging methodology, which can be criticized in terms of its dependence on internet accessibility, costs and privacy.



• In the case of Turkey mobile technologies provided not only a virtual communication platform, but also created an opportunity to face to face meetings with the authorities

 Even in a short period of time an action of the government can create a public reaction, can be spread very rapidly through social media and create all the possibilities for a participatory planning pocess





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THANK YOU.....