Photosharing on flickr: a data source for assessing cultural values in urban landscapes

Université de Liège

LEMA

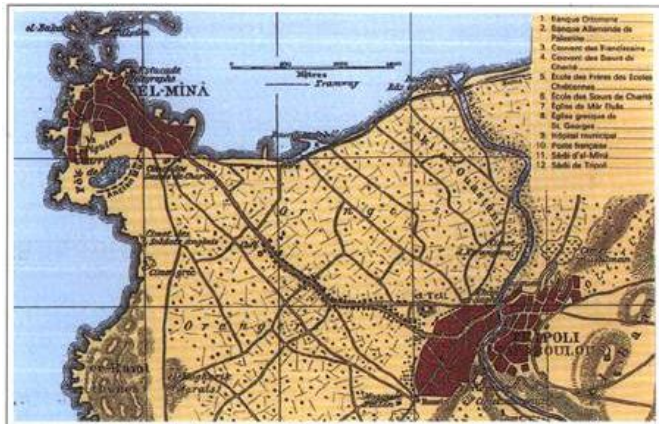Manal Ginzarly
LEMA , Université de Liège
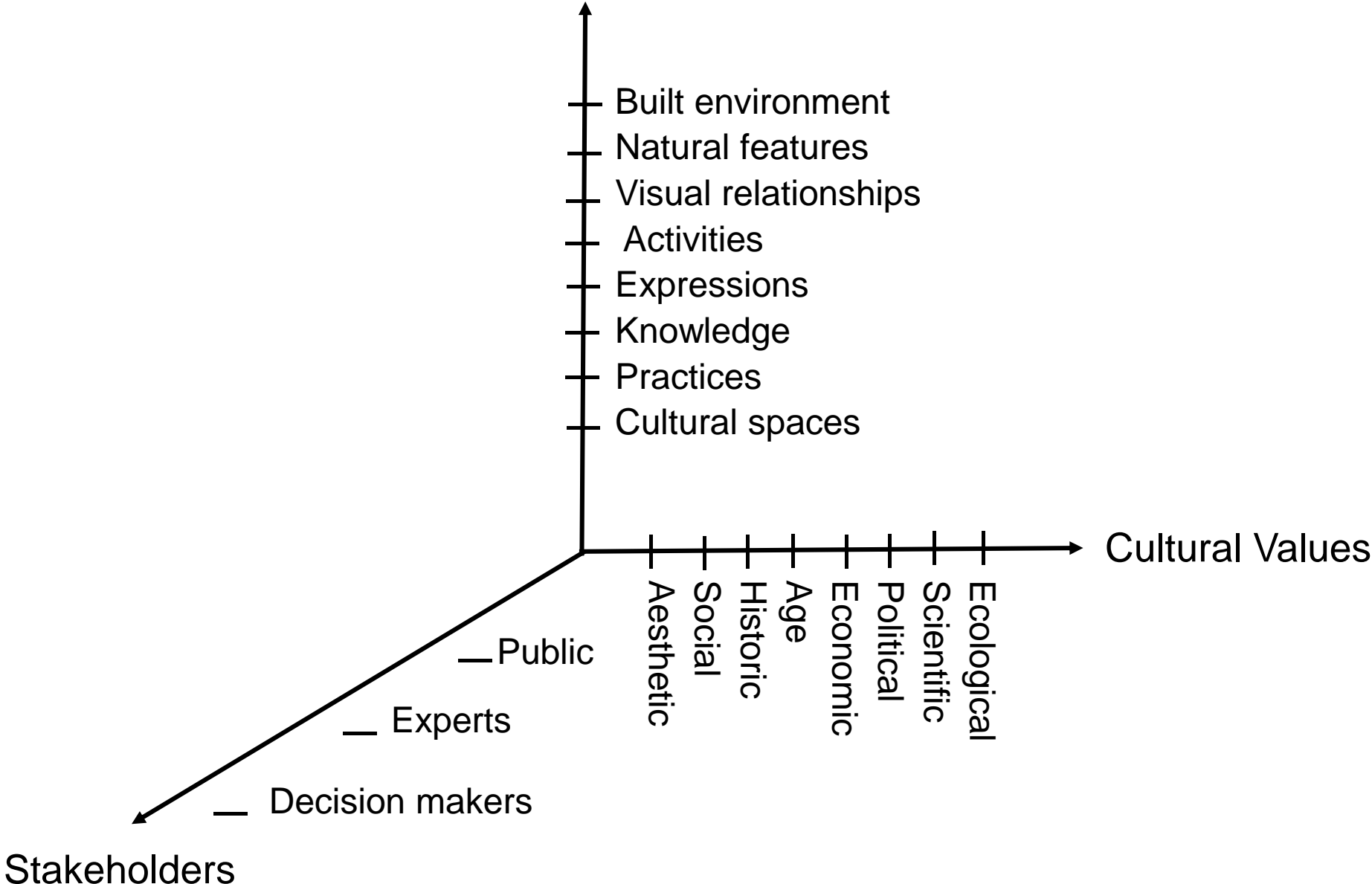
Historic Urban Landscape HUL

Cultural heritage, in its manifold expressions, is an enabler and driver of the economic, social and environmental dimensions of sustainable development.

Category

Approach

Tangible/Intangible Attributes

- Built environment
- Natural features
- Visual relationships
- Activities
- Expressions
- Knowledge
- Practices
- Cultural spaces

Cultural Values

Aesthetic
Social
Historic
Age
Economic
Political
Scientific
Ecological

Public
Experts
Decision makers

Stakeholders

HUL Toolkit

Knowledge & Planning Tools

Planning
GIS
Big Data
Cooperation

Morphology
Impact Assessment

Community Engagement Tools

Dialogue & consultation
Community Empowerment
Cultural Mapping

Social Media

Regulatory Systems

Laws & Regulations
Traditional Custom
Policies & Plans

Financial Tools
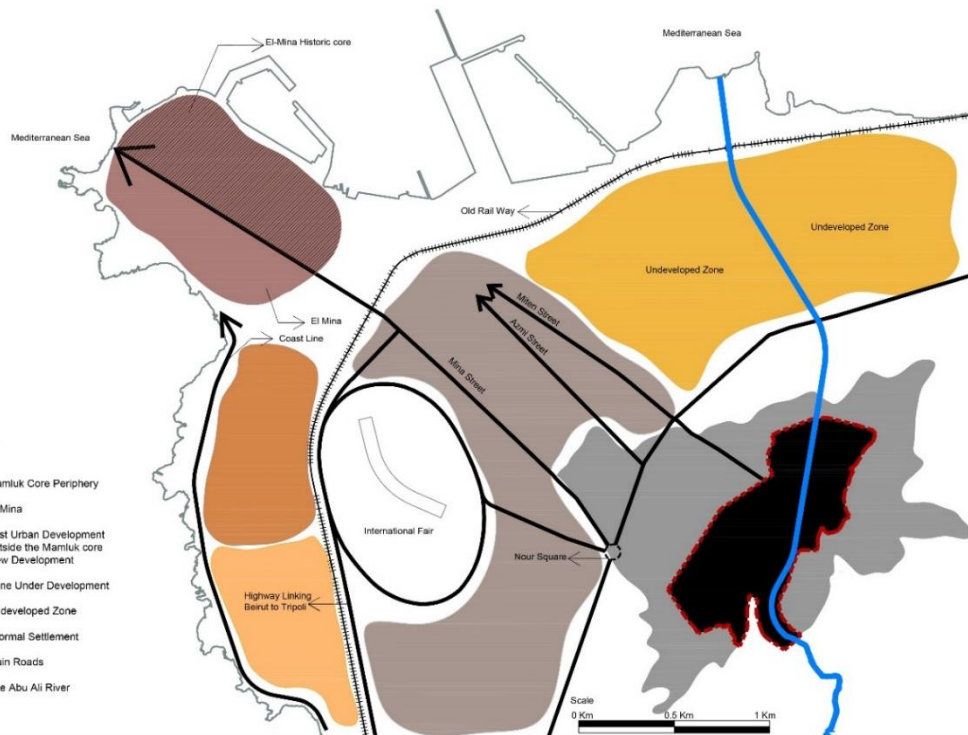
Economics
Grants
Public-Private

flickr

Tripoli, Lebanon

API DOCUMENTATION   DATA RETRIEVAL

PHOTOS

PHOTO ID
USER/ USER ID
DATES
GEO-LOCATION
TITLES
TAGS
COMMENTS
N° of Likes
N° of Views
URL

Photos were assembled by photographer

Photos were clustered by location
Most and least photo shot zones

Photos are clustered by content
Built environment, Natural features, Visual realtionships, Activities, Expressions, Knowledge, Practices, and cultural spaces.

Quantitative Analysis
Most used tags

TAGS

Qualitative Analysis

The Tags are qualitatively analyzed in relation to the content of photos to unveil the cultural values associated with the historic urban landscape.
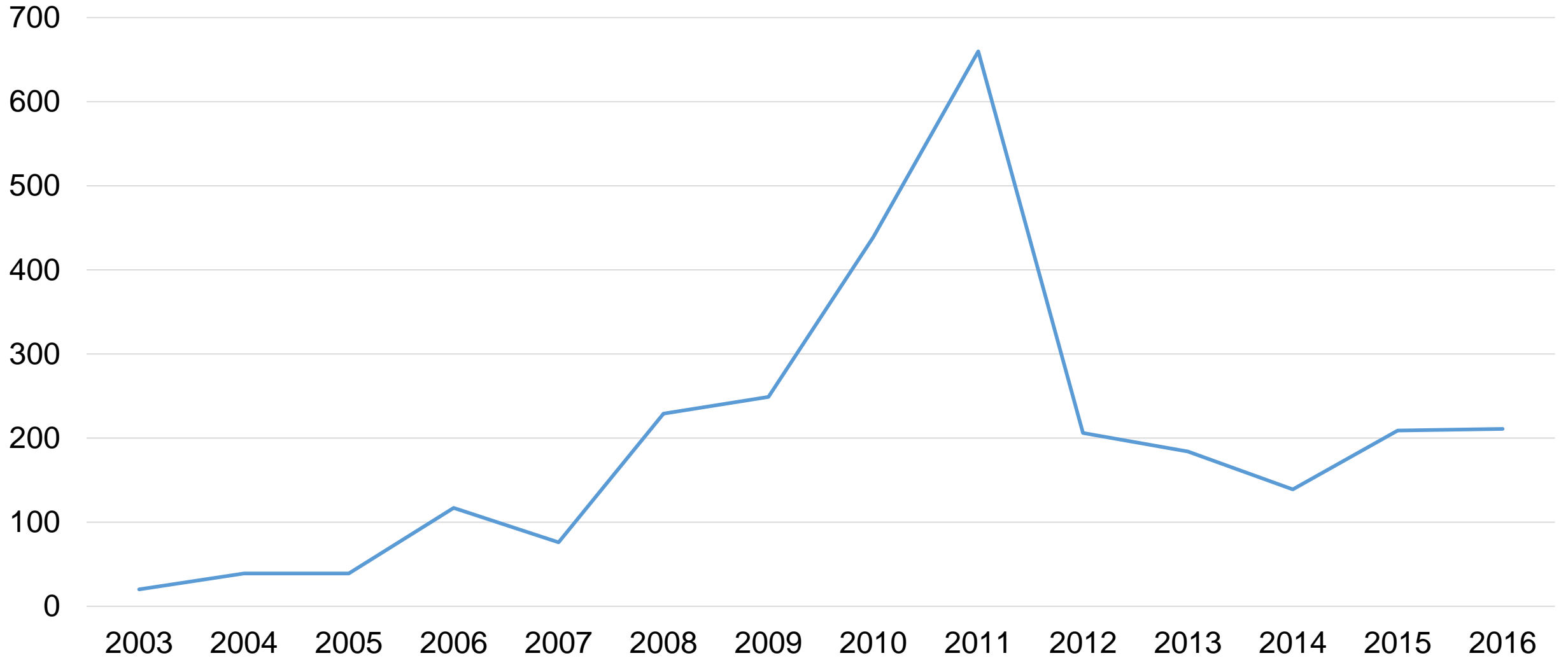
Data Profile

- Number of users: 473

- Number of retrieved photos: 2888

- Number of analyzed photos: 1535

After the elimination of photos of the same location that are taken by the same photographer

- Number of photos per user ranges from 1 to 46

- Number of user tags ranges from 0 to 25
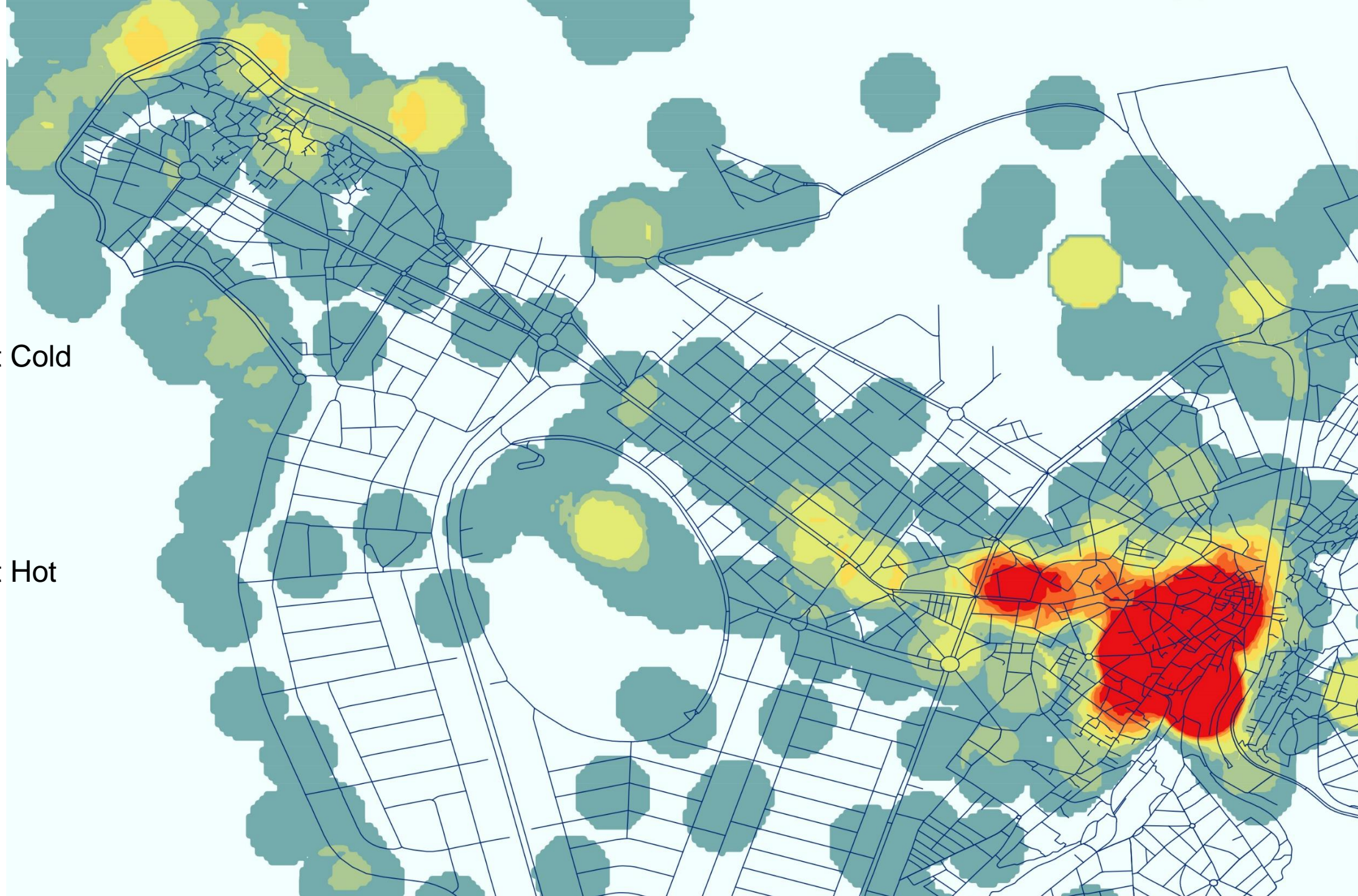
Evolution of the number of photos posted by date

OUTCOME

Processing of photos Location Data

LEGEND

Cold Spot
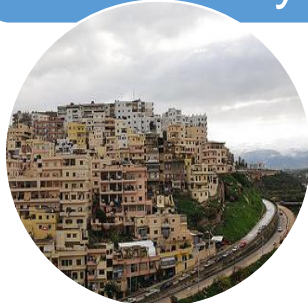
Significant Cold Spot

Hot Spots

Significant Hot Spots

Photos by Content

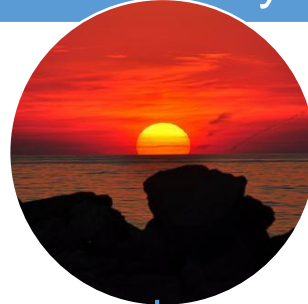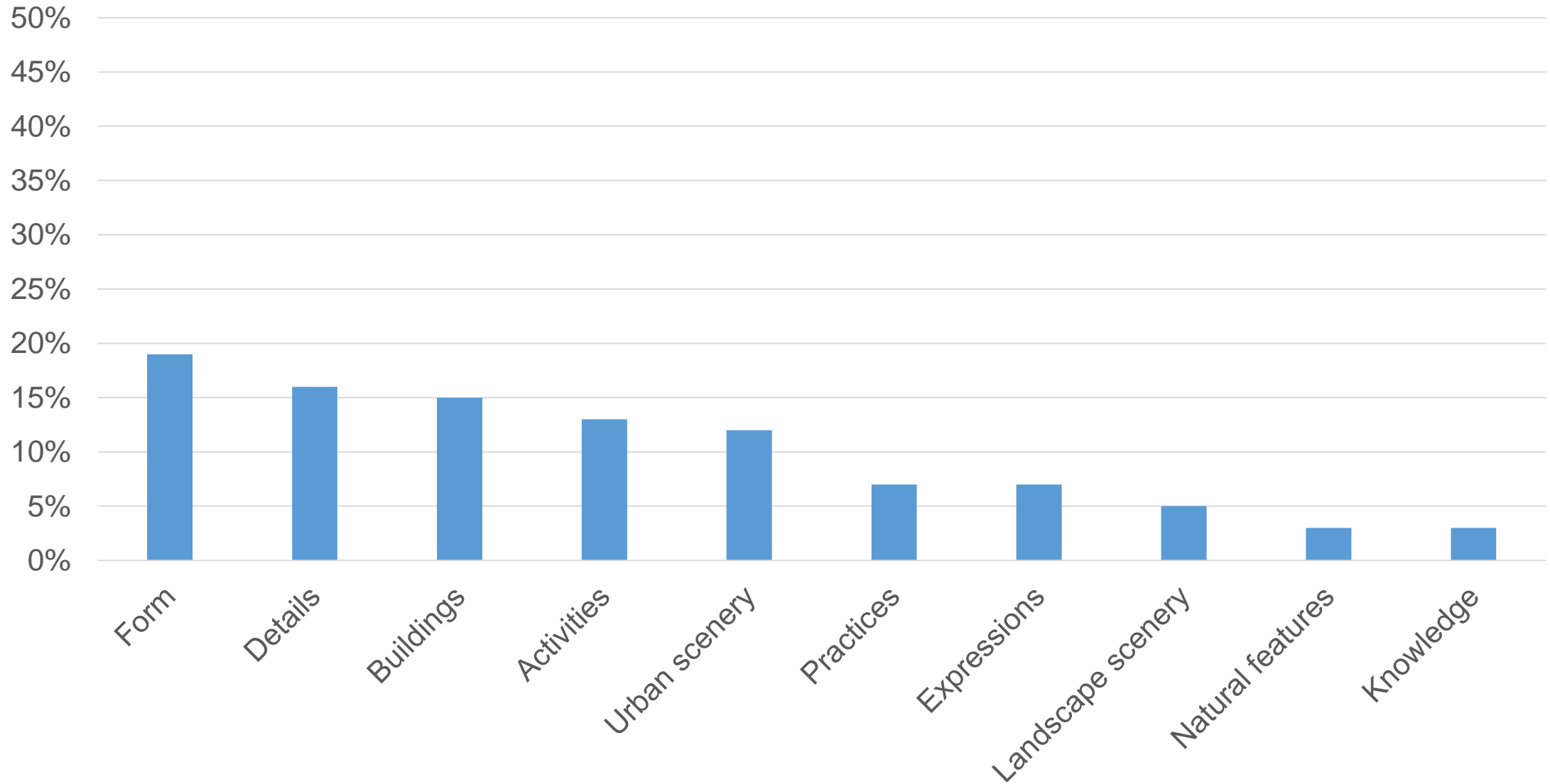# Photos by Content

Most posted photos
Urban scenery
East bank of the river posted 70 times

Title: View of Tripoli, Lebanon from the Citadel which lies high above the old town

Landscape scenery
Natural landscape (the sea) posted 65 times

Most posted photos
Streets

Commercial Streets in the Mamluk Core

Most posted photos Monuments

Citadel

Great Mosque

Tags frequency

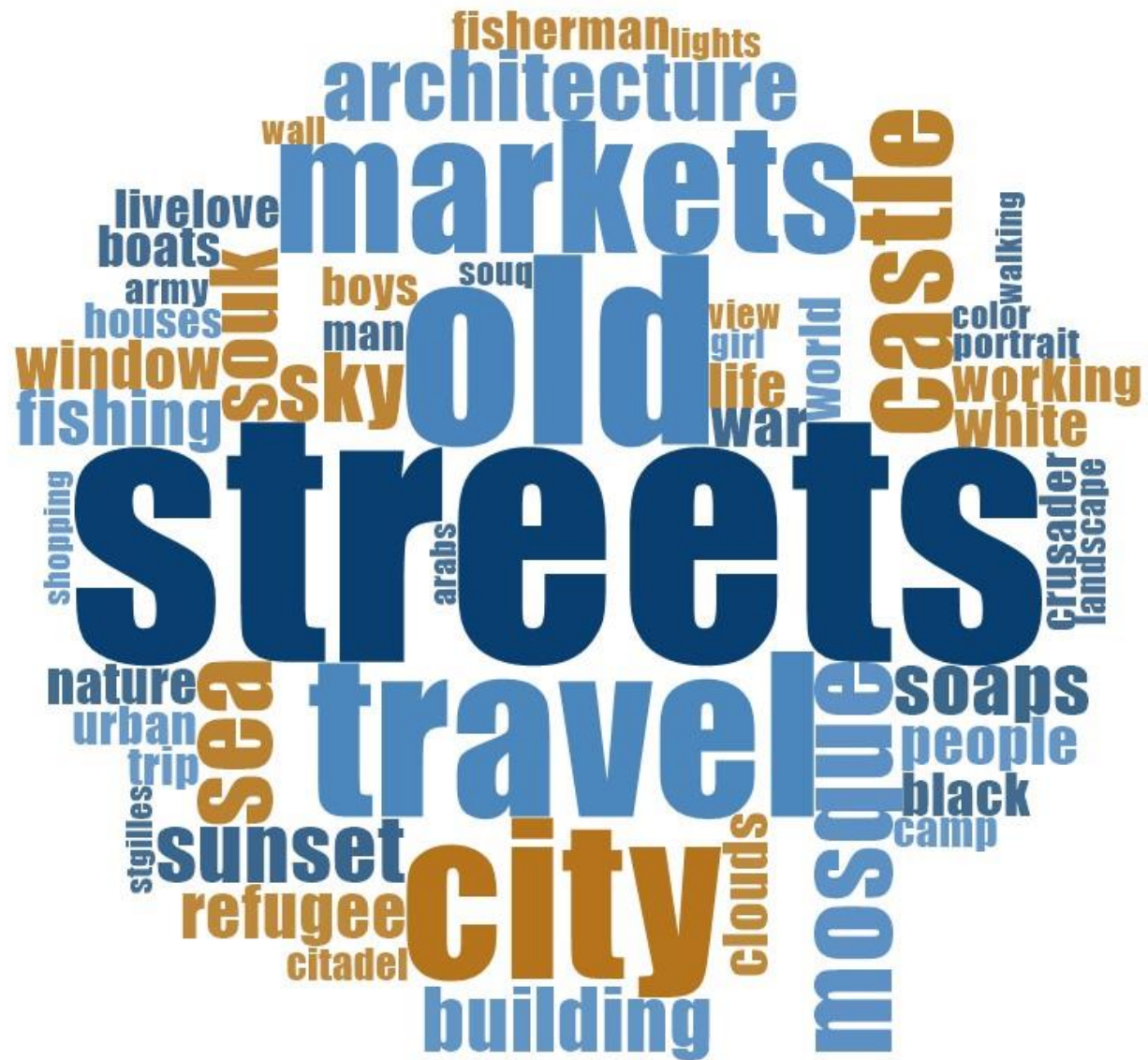| Tangible Attributes	Count 901	Intangible Attributes	Count 592
Built Environment	**533**	**Activities**	**452**
Form	260	Travel, Market, Fishing, People, Fisherman, Trip, Working, Portrait, Boy, Girl, Man, Woman, Children, Shopping, Bazar, Tourism, Tour	
Street, City, Urban, Town, Downtown, Cityscape, Roads			
Buildings/ Monuments	206		
Castle, Architecture, Building, Mosque, St Gilles, Houses, Fortress, Bath, Clock Tower			
Objects/Details	67		
Window, Arch, Wall, Stairs, Balcony, Door			
Natural Features	**270**	**Expressions**	**214**
Sea, Sky, Clouds, Sunset, Boat, Nature, Landscape, Water, Tree, Stone, Sun, Beach, Coast, Mountains, River, Birds, Summer		Style, Crusader, Arabic, Food, Islamic, Original, Mediterranean, Culture, Orient, Art, Mediaeval, Heritage, Tradition, Historical, Mamluk, Art, Medieval, Head Veil, Graffiti, Music.	
Visual Relationships (sensory Tags)	**98**	**Knowledge**	**126**
Old, Lights, Lighting, Color, View, Shadow, Fragment, Faded		Refugee, Oscar Niemeyer, War, Army, Camp,	
		Practices	**19**
		Soap	

Title: View of Tripoli, Lebanon from the Citadel which lies high above the old town

Tags

Titles

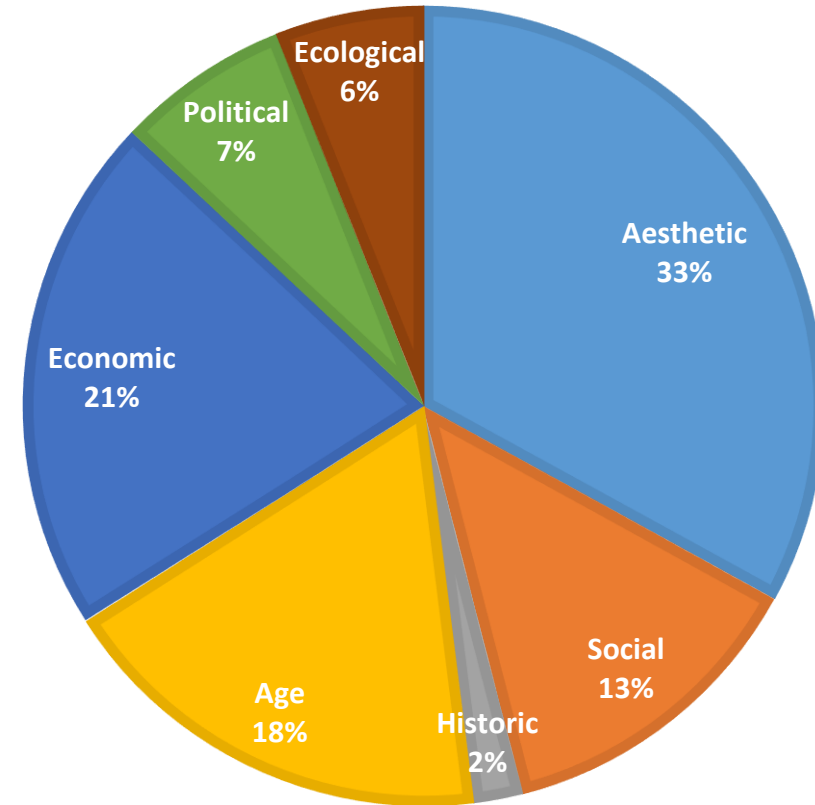# Cultural Values associated to the Historic Urban Landscape

PHOTO CONTENT

- Aesthetic 33%
- Social 17%
- Historic 2%
- Age 10%
- Economic 27%
- Political 6%
- Ecological 8%

TAGS

- Aesthetic 31%
- Social 14%
- Historic 3%
- Age 14%
- Economic 16%
- Political 7%
- Ecological 15%

TITLES

- Aesthetic 33%
- Social 13%
- Historic 2%
- Age 18%
- Economic 21%
- Political 7%
- Ecological 6%

Management of Change