



International Conference  
16th - 17th December 2021

# SHAPING LIGHT FOR HEALTH AND WELLBEING IN CITIES

Session 2: SOCIAL LIGHTING AND LIGHTING  
TECHNOLOGY FOR URBAN WELL-BEING

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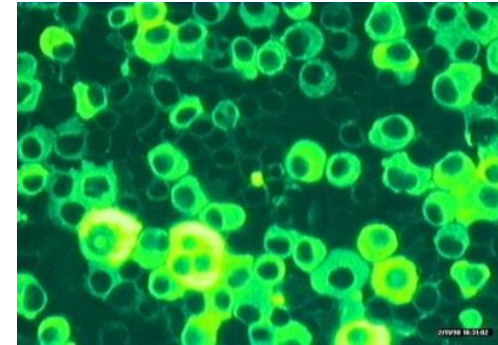
IMPACT OF LIGHTING ON HEALTH AND WELL-BEING OF LIFE FORMS  
CONTENT CURATION OF THE WEB FOR THE PAST TEN YEARS



ENLIGHTENme has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 945238

# Introduction

- GCF
  - MD, PhD
  - **Professor Emeritus in Clinical Immunology (Université Lorraine and CHU Nancy)**
  - Involved in Immunofluorescence UV microscopy and laser flow cytometry
  - IUIS/ICSU (now ICS) : **Health and well-being in urban environments**
  - **CREM (Centre de Recherche sur l'étude des médiations): *Information Professional***
  - **OKCC/C30 (Open Knowledge Content Curation/ Curation de contenus en connaissances ouvertes)**
  - Activities in content curation for many years, for research, teaching and learning
    - On Immunology and related fields, e-reputation and place branding
- CMF
  - Purchasing manager in Street Lighting industry in Nancy Lorraine



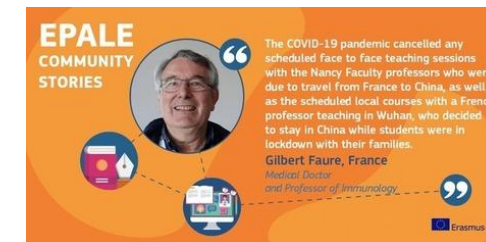
# Content Curation is: Information and Knowledge Management system

- With human flair like Museum or Exhibitions curation
- Still a recent and no so well known concept, however many tools available
- Choice of Scoop.it
- Finding, collecting, elevating, sharing relevant knowledge material available from the web
- Covering either classical published scientific information, as well as material from internet and social networks
- To build specific content hubs



# Advantages of digital content curation

- **Research:** various Immunology topics and subtopics, finding, archiving, retrieving information for
  - Personal use and network of students and colleagues
- **Teaching and Learning for « Media and Information Literacy »**
  - Active-, Hybrid-, Blended-Learning
  - Self-Learning
- **Long Distance Learning** (Resources and activities) during Covid pandemy
  - Nancy Lorraine, Wuhan Hubei, Kunming Yunnan
- **Life-long learning** (CME/CPD) in High Education and Corporate Settings
  - **Knowledge management** in companies, individually or as networks
- **Challenges:** like most learning approaches
  - Digital content curation is a day to day duty... like walking the dog
  - Will artificial intelligence help, and « social listening » tools?



# Content Hubs on Lighting

- Webcrawling and collecting relevant snippets of information from the web through information watch for ten years
- Keywords: street lighting, public lighting

## Lighting, Innovation, Design

<http://www.scoop.it/t/lighting-innovation-design>

>10,7K scoops, >10,7K visitors, >22,4K views



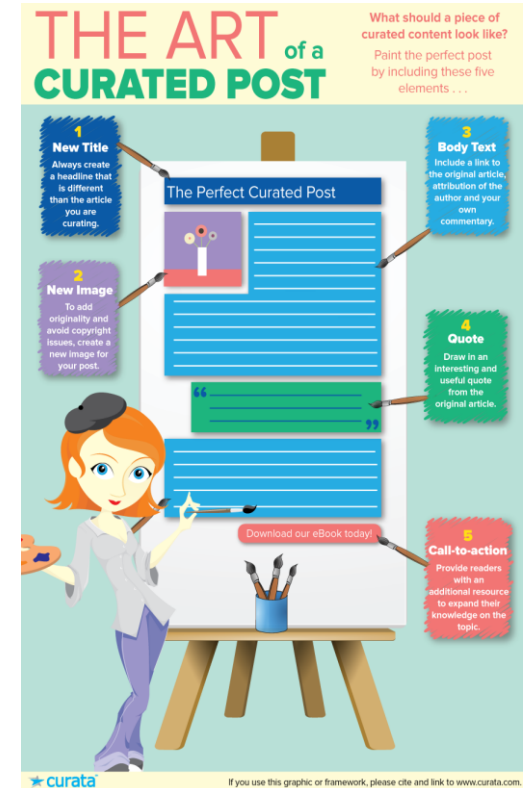
## Lighting in Art

<http://www.scoop.it/t/lighting-in-art> >1,4K scoops, >2,5K vis., >5,4K views



## Lighting in History

<http://www.scoop.it/t/lighting-in-history> >1,5K scoops, >1,2K vis., >2,5K views



# LIGHTING Innovation Design

## ■ Technical Watch

- **LEDs** : up to 30% of posts in the first years, from savings to (blue) light pollution
- **Solar Lighting** >10% posts
  - Africa, Asia, Europe...
- **Smart Cities** >15% posts and thriving



## ■ Information from a Global World:

- Europe #40%
- Americas >25%
- Asia: China, India #5% each
- **Africa #5%** (Master by A.Dia) from Lighting to Energy, from Off-Grid to Smart cities

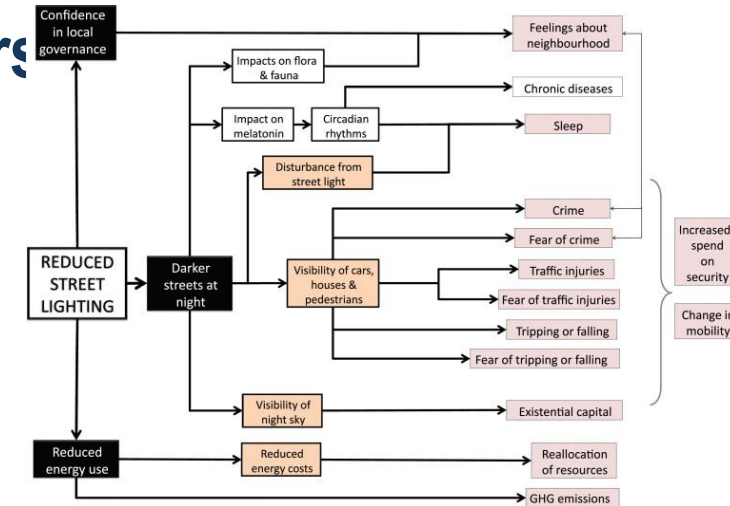
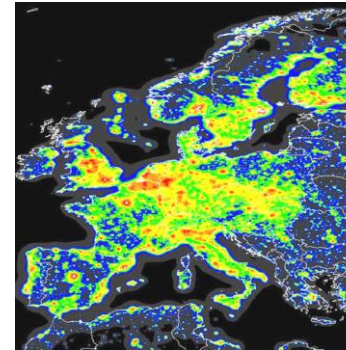


# Societal Watch



## ■ Economy of public lighting: policy makers, public officers

- From costs (#5%) to savings
- Through LEDs and lighting limitations
- With Safety Concerns



More and more

## ■ Environmental concerns #20% municipalities, individuals

- Light Pollution and Consequences
- Dark Sky Association and activists
- Ecology
- Tourism: Star gazing in Europe, USA



# Health: « state of being free from illness or injury »

- **Humans <5%**

- Neurology: Sleep disorders, and body clock/circadian rhythms
- Endocrinology, Obesity
- Diseases:
  - Breast, Prostate, Thyroid cancer ?
  - Bipolar disorders?



- **Life forms : Wild Life populations shrinkage >10%**

- Animals... Moose!
- Birds, migration consequences
- Fishes, Turtles...
- Bats..... Insects, moths, bees, pollinators
- Vegetals: Plants, Trees





# Well-Being: the state of being comfortable, healthy or happy



- **HUMANS**

- Safety concerns (from UK to Africa)

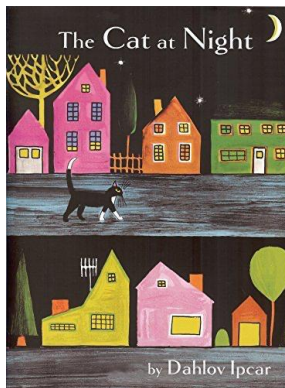


- **Comfort and Individual Activities at night: Night Time Life**

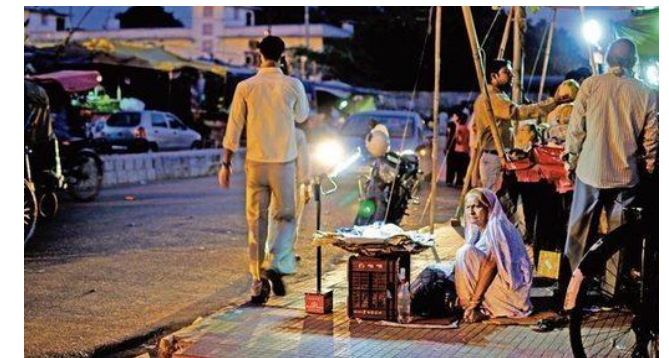
- **Education, Leisure and Commercial activities at night (from USA, UK, China to India and Africa)**

- After Dark or up to 24/7 Economy

- **Life forms:**

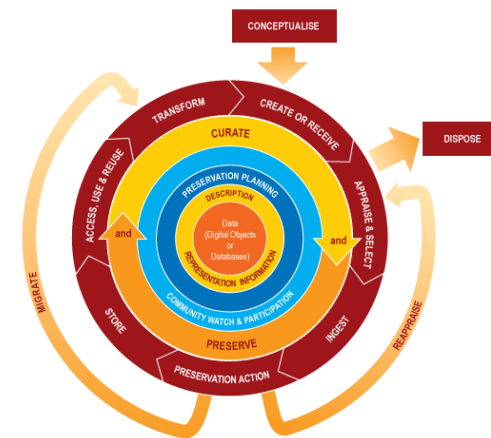


Cats?, foxes, boars... in cities



## Digital Content Curation is for...

- Building **OPEN** specific and relevant « *content hub, body, pool, wealth* » of Information
- Helping battling **Infobesity and information overload**
- **Hand-picking** relevant information from the web related to **street and public lighting**
- Making it available for
  - lay-people, students, researchers, teachers ...
  - and public officers, managers, and companies...
- 
- **Sharing** on social networks
- (Linkedin, Twitter and Facebook : not yet implemented)
- Topic : inside search via keywords and full text



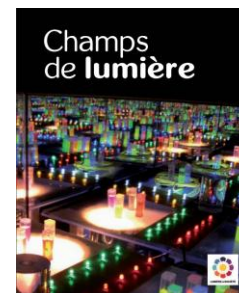
## Summary and Acknowledgments

- An OPEN Content Hub of information visible on the web related to street and public lighting.
- Collecting information from various types of publications, specialized journals as well as general press, blogs and social networks...
- Covering not only technical innovations
- But more and more societal consequences of public lighting such as **health and well-being of all types of life forms.**



- Some references:

- Athens Balkan Light 2015
- Année de la Lumière en France 2016
- Lumière et Société from 2015
- St Malo ECIL 2017
- International Days of Light since 2017



International  
Day of Light

16 May