Citizen Science:

quality collective

big data ; artificial intelligence

MOSAIC
Méthodes et outils pour les sciences participatives

un centre de compétences

MUSÉUM NAL HIST NATURELLE

SORBONNE UNIVERSITÉ

Mission HÉRISSON L'enquête

ENQUÊTE HÉRISSON | OBSERVATIONS | LE HÉRISSON | CONSEILS | ACTUALITÉS | JE PARTICIPE

Inscription | Connexion

VOTRE MISSION SI VOUS L'ACCEPTEZ...

L'enquête Mission Hérisson s'adresse à tous. Elle a pour but d'étudier les évolutions de population du Hérisson d'Europe sur plusieurs

© Antoine Meunier

Comment préparer mon encre ?

1. Préparez un petit bocal avec un couvercle. Versez-y 2 cuillères à café de poudre de charbon.
2. Ajoutez-y délicatement de l'huile végétale (tournesol, arachide, colza...) en remuant jusqu'à l'obtention d'un liquide bien lisse (ressemblant à de l'encre de Chine).
3. C'est prêt !

Conseil : afin de pouvoir conserver votre encre entre 2 sessions de suivi et pour faciliter son utilisation, réalisez votre mélange dans un bocal hermétique, de préférence en verre. Vous pourrez ainsi la conserver plus longtemps.

POTAGER DE PEREPAUL

Le mercredi 11 novembre 2020

JOUR 5

60 - Oise

Terrain clôturé

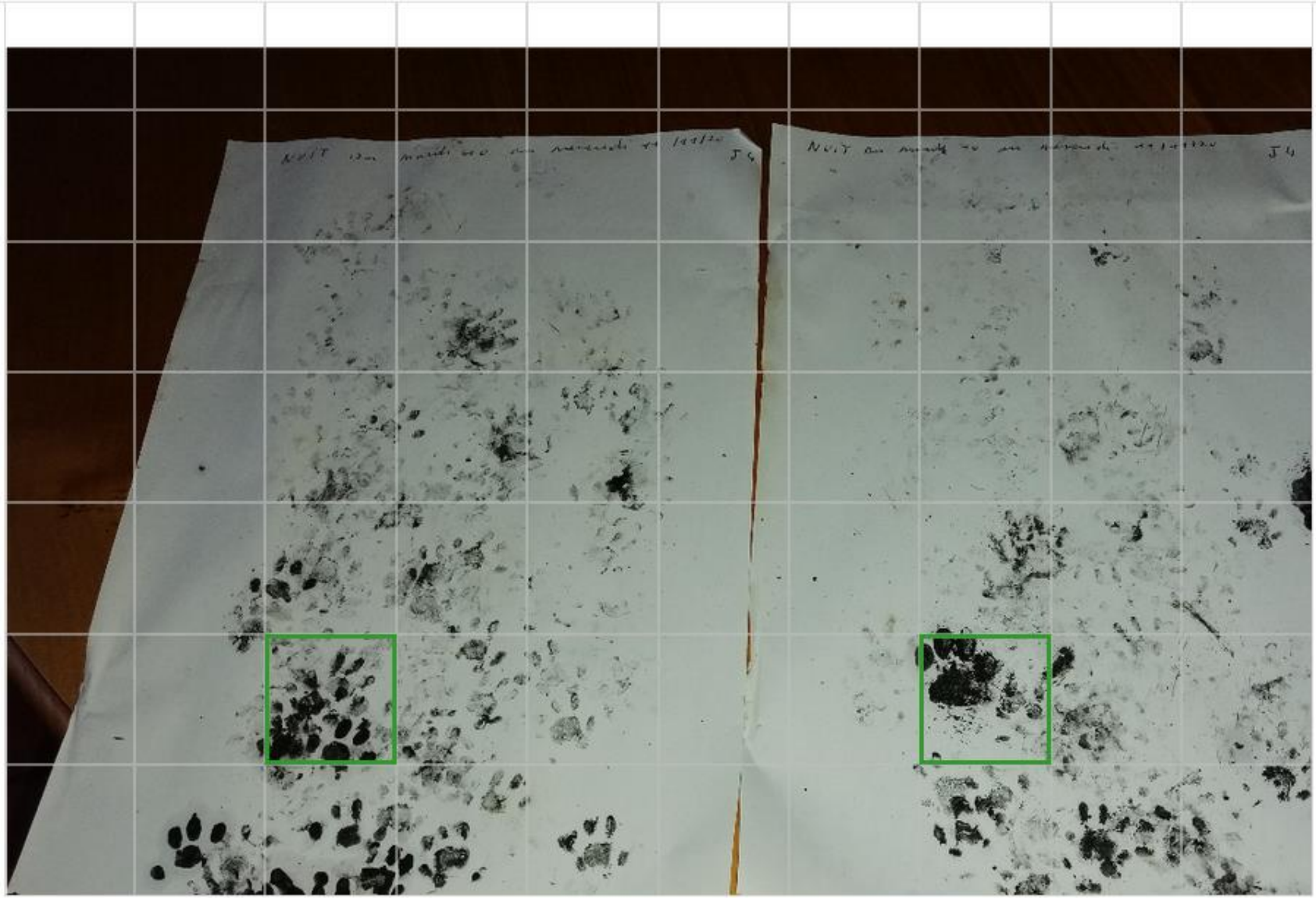
Environnement général du lieu : Urbain

Dans un jardin

Origine du tunnel : Tunnel construit par moi même

Structures linéaires proches à côté du tunnel : Clôture

Forme du tunnel : Carré


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J

ANIMAUX OBSERVÉS

Identifications trouvées ou approuvées par PEREPAUL

PEREPAUL

2

validations

0 suggestion

HÉRISSON

Case C6

Je confirme cette identification

J'ai une autre identification à proposer

PEREPAUL

1

validation

0 suggestion

CHAT DOMESTIQUE

Case H6

Je confirme cette identification

J'ai une autre identification à proposer

Mission HÉRISSON
L'enquête

ENQUÊTE HÉRISSON | OBSERVATIONS | LE HÉRISSON | CONSEILS | ACTUALITÉS | JE PARTICIPE

Inscription Connexion

VOTRE MISSION SI VOUS L'ACCEPTEZ...

L'enquête Mission Hérisson s'adresse à tous. Elle a pour but d'étudier les

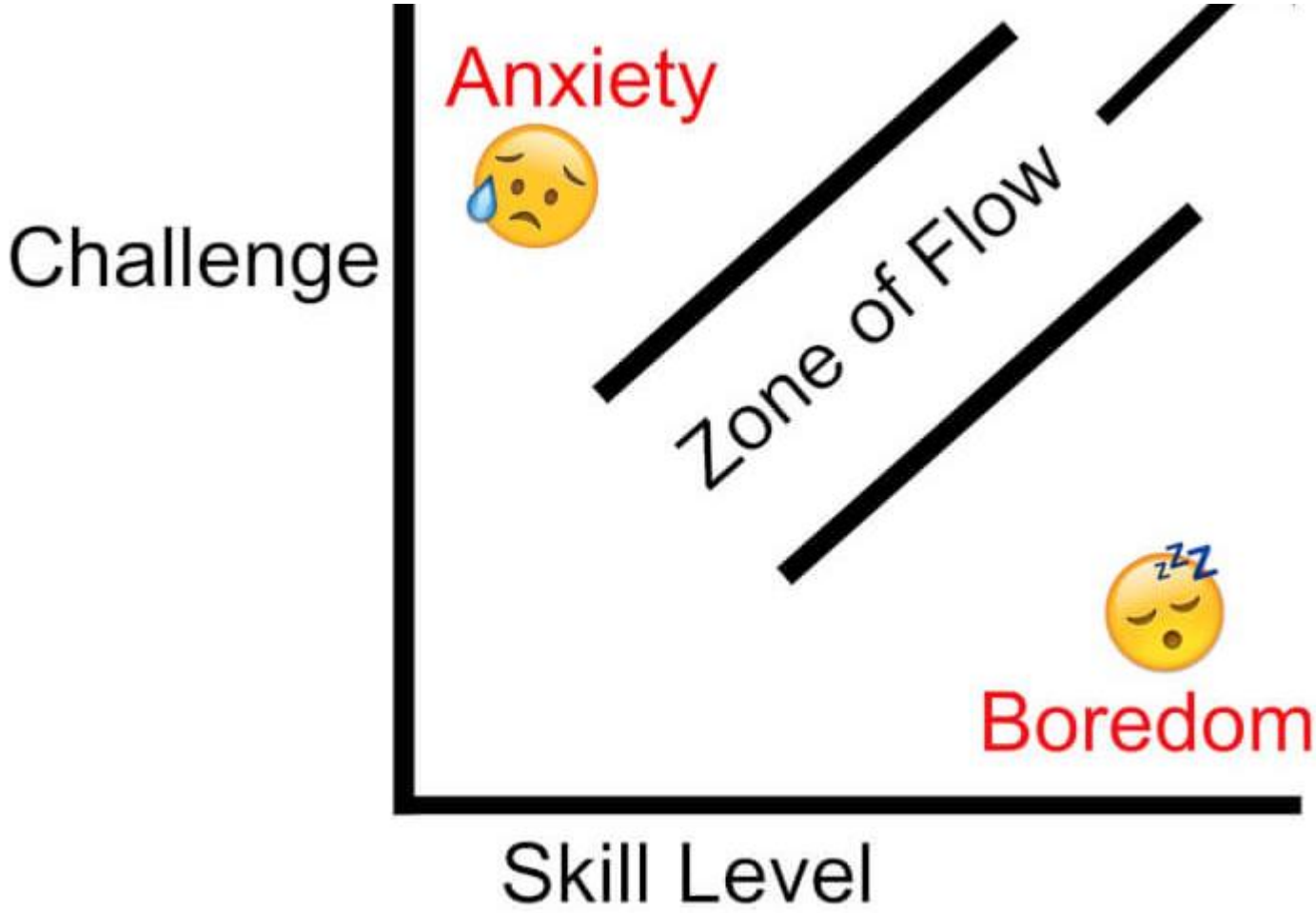
A first lesson from our experience

A first lesson from our experience:

A positive correlation between scientific data quality et participant engagement

« it must be simple and funny otherwise people do not participate »

Find the optimal Optimal experience (Csíkszentmihályi Mihály) :



Structured data / based on protocol:

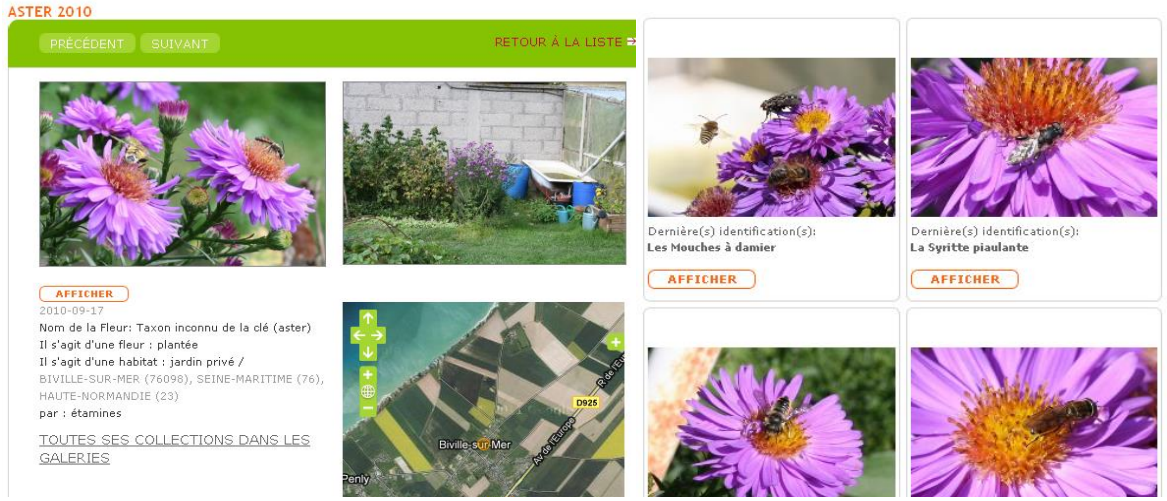
observations ; Situated, intentional data, enriched with local knowledge and own participant experience

Human's skills

Individual specific contribution

A secon lesson from our experience

The importance of the social plateform for data quality control



COMMENTAIRES DES INTERNAUTES

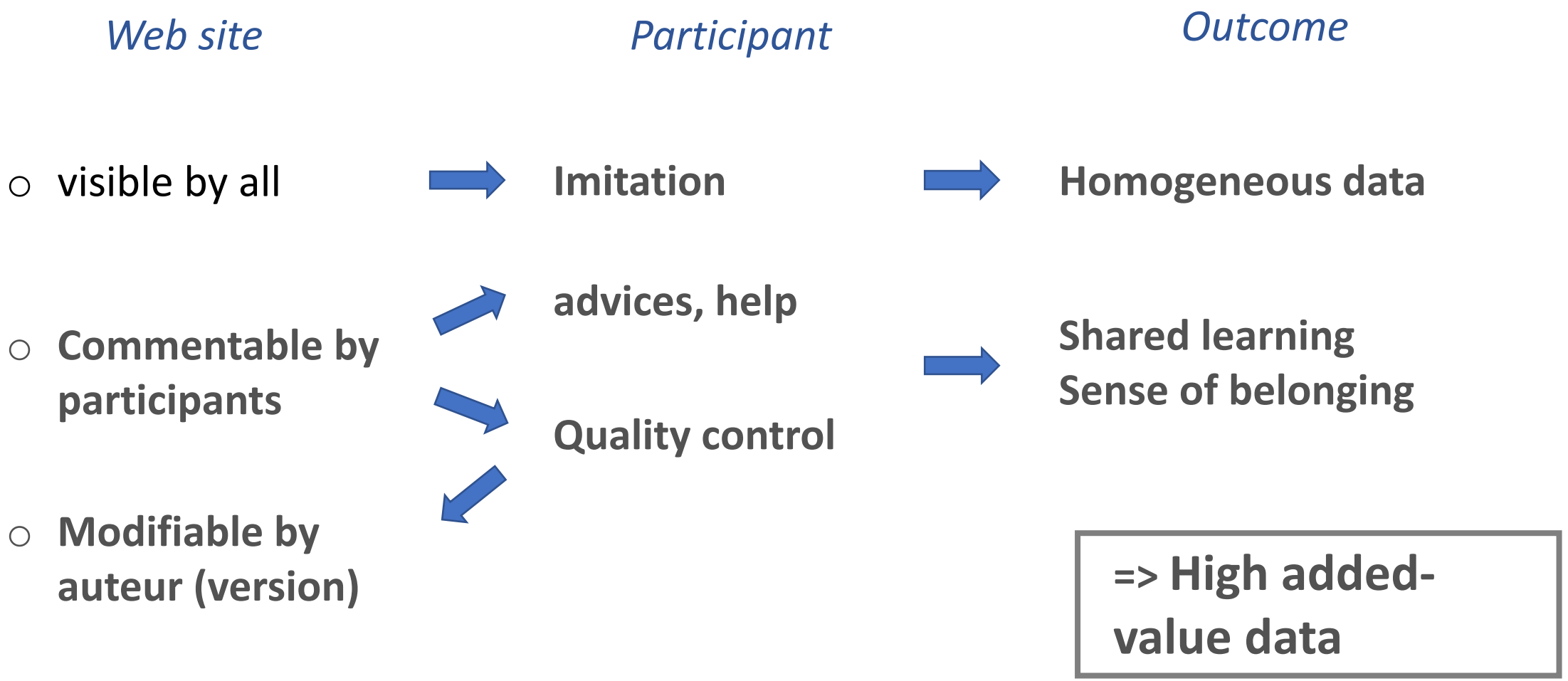
par : cybelle 2011-04-23

Superbe votre collection Etamines, les insectes se bousculaient pour vous faire plaisir, vous avez dû vous régaler.

par : Fernand 2011-04-23

Très belles photos. Les fleurs sont magnifiques et les insectes également. Beau travail étamines .

Citizen science 2.0 : the martingale



CHANGING NATURES

Developing a Shared Participatory, Digital Collection of the Anthropocene

Elisabeth Heyne, Frédérique Chlous, Romain Julliard, Ulrike Sturm, Mira Witte

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE ET DE L'INNOVATION
Liberté
Égalité
Fraternité

SPONSORED BY THE
Federal Ministry of Education and Research

MUSÉUM NAL HIST NATURELLE

MUSEUM FÜR NATURKUNDE BERLIN

- Environmental amnesia: our reference of good state of nature is our childhood. We individualy and collectively forget what has happened before.

- Once in while, we come across a document/object from the past that surprises us about what it tells us on the past state of nature and the amplitude of changes since.

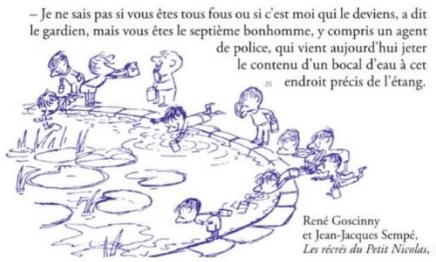
Let’s make a participatory digital (research) collection out of it !

Démarche participative

Proposer aux citoyens de partager des documents du passé/archives

- Qui témoignent à leurs yeux des changements de la nature
- Qui les interpellent (surprise)
- Et qui leur donnent envie de construire un récit sur le changement perçu.

Différents types de documents concernés (archives privées, personnelles ou documents publics)



DROPDOWN1 DROPDOWN2 DROPDOWN3 ITEM 2 ITEM 3 FAQ

Home Collections Dashboard Contribute Log out

1 YOUR OBJECT
2 SHARE YOUR STORY
3 TIME AND PLACES
4 ENVIRONMENTAL
5 MATERIALS
6 EMOTIONS
7 SUMMARY

Share your story

What can you tell us about your object ?*

Heading 1

What is your relationship to the object you chose?

What does the object in your eyes tell about changes of nature? Is there something surprising about them?

What does your object and story tell about global environmental transformations?

1500 characters max

Which environmental, historical or social topics are linked to your contribution?*

Placeholder

helper

#tag1 #tag2

*Mandatory fields

GO BACK SAVE DRAFT NEXT STEP →

CHANGING NATURES

DROPDOWN1 DROPDOWN2 DROPDOWN3 ITEM 2 ITEM 3 FAQ

Home Collections Dashboard Contribute Log out

1 YOUR OBJECT
2 SHARE YOUR STORY
3 TIME AND PLACES
4 ENVIRONMENTAL
5 MATERIALS
6 EMOTIONS
7 SUMMARY

View master, Vannes - 1992

By C.Delais

OBJECT N°109834

ENVIRONMENT :	Habitat: Urban, Countryside	Animals: Pigeons (Grey dove), Horses	Plants: Grass,Lawn	Other species: Lichen
MATERIALS :	Raw material: Fossil oil, Wood	Processed material: Plastic, cardboard, photographic film	Practices: Photography, Tourism	
OTHER IMPORTANT TOPICS :	Pressed plastic, memory, souvenir, photography			
EMOTIONS AND HOPES :	Childhood, sadness, good old days, Joy			

Julia Posted Oct 21, 2021

Time and location

2022 : Current location
Loudéac, Bretagne, France

2015 : Found in the attic
Loudéac, Bretagne, France

1990 : Origin
Vannes, Bretagne, France

Story

Travel memory, summer vacation 1992, I was 3 years old, summer vacation with my grandparents and my parents in Vannes to visit the city, see the sea and the castle.
This souvenir contains 12 photos of the city of Vannes that can be scrolled using a wheel.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sem morbi blandit donec bibendum ut odio. Ipsum arcu gravida eget non. Orci facilisi cras urna vitae. Ridiculus mauris eget vitae morbi amet, eget aliquam arcu tempor. Sit amet consequat dignissim ipsum. Et tortor etiam et at sit euismod elit pharetra, semper. Gravida feugiat libero laoreet viverra. Nibh felis et enim mauris malesuada eros sed.
Pellentesque aliquam duis nullam varius morbi. Laoreet felis pellentesque vestibulum purus at orci sed. Sodales libero euismod commodo nulla. Metus nibh fames enim posuere. Eget mauris scelerisque vitae morbi. Egestas eget pellentesque pharetra, donec lobortis.
Pellentesque aliquam duis nullam varius morbi. Laoreet felis pellentesque vestibulum purus at orci sed. Sodales libero euismod commodo nulla nulla est. Metus nibh fames enim posuere. Eget mauris scelerisque vitae morbi. Egestas eget pellentesque pharetra, donec lobortis.
Pellentesque aliquam duis nullam varius morbi. Laoreet felis felis sis pellentesque vestibulum purus at orci sed. Sodales libero euismod commodo nulla. Metus nibh fames enim posuere. Eget mauris scelerisque vitae morbi. Egestas eget pellentesque pharetra, donec lobortis this is exactly 1500 caracters.

MUSÉUM NAL HIST & NATURELLE

für Natur MUSEUM FÜR NATURKUNDE BERLIN

OBJECT N°109834

ENVIRONMENT :	Habitat: Urban, Countryside	Animals: Pigeons (Grey dove), Horses	Plants: Grass,Lawn	Other species: Lichen
MATERIALS :	Raw material: Fossil oil, Wood	Processed material: Plastic, cardboard, photographic film	Practices: Photography, Tourism, souvenir	
OTHER IMPORTANT TOPICS :	Pressed plastic, memory, souvenir, photography			
EMOTIONS AND HOPES :	Childhood, sadness, good old days, Joy			

CHANGING NATURES
ABOUT
NEWS
CMS1
CMS2
CMS3
FAQ
EN
Contribute
Collection
CREATE AN ACCOUNT
LOG IN
CHANGING NATURES
A participatory collection of the Anthropocene
Occaecat aliquip deserunt laboris magna excepteur officia dolore nisi. Consequat mollit aliquip culpa non ex labore laboris in mollit magna.
Excepteur excepteur eu voluptate mollit esse ut officia culpa consectetur enim occaecat nostrud.
CONTRIBUTE
VIEW MASTER VANNES 1992
Vannes, FR
Global topic related
ME AND GRANDMA NORMANDY HOLIDAYS
Granville, FR
Global topic related
SOUND OF SILENCE BERLIN 1989
Berlin, DE
Global topic related
MAP OF PLEMET NEAR LOUDEAC
Plemet, FR
Global topic related
LOTS OF TRAINS
Gornje Primišlje, HR
Global topic related
LANDSCAPE FROM MY CHILDHOOD
Częstochowa, PL
Global topic related
SEE THE NATURE
La Fourchotte, FR
Global topic related
OLD T342 MODEL TRAIN
Sansepolcro, IT
Global topic related
GOOD DOG
Chongqing 重庆市, CN
Global topic related
HUNTER GRANDPA
Saint Remi en Bazouille, FR
Global topic related
OLD DUPLO SHEEP
Wilhelmshaven, DE
Global topic related
FAMILY TREASURE
Hamburg, DE
Global topic related
NORTH ABANDONNED
Cumbernauld, GB
Global topic related
Contributions accross the world
Occaecat aliquip deserunt laboris magna excepteur officia dolore nisi.
Occaecat aliquip deserunt laboris magna excepteur officia dolore nisi. Consequat mollit aliquip culpa non ex labore laboris in mollit magna. Excepteur excepteur eu voluptate mollit esse ut officia culpa consectetur enim occaecat nostrud.
Excepteur excepteur eu volu
SEE EVERYTHING

- Trilingual platform

- Story and comments are translated with deepl, allowing exchanges among participants not speaking a common language!

Citizen science 2.0 et health research ?

The issue of sharing data among participants!

The usual practice:

« Cohorte » survey (forms with little feedback) + online forum on a GAFAM social network

Two concerns:
Difficult to extract appropriate data from forums
Those forum are not secured

Medical reseach

Participant

Secured information system

Personal data

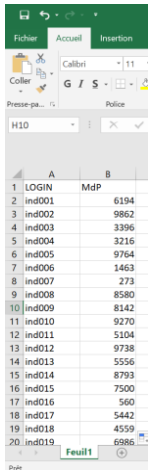
Health data

Contact data

Login / password for citizen science platform

Registration on the platform

Login/password send through secured pathways (eg: in hand, during a medical visit)



List of possible login shared at the beginning of the project

Standard information system

Log file: adress IP (no other data)

Participation data (visible to other data)
Comment, question, notification (as in any social network)

No personal data: no accurate localisation, no mention of age, sexe, etc.

Login, password (no other contact data, no email adress…)

Santé Diabète

In subsaharian Africa, diabete is a new emerging desease with little cultural practice

Objectives :

- To establish structured and shared exchanges about food, sport, and diabete treatment and symptoms

- Target participants: young (teenagers and adults) type I diabete (already identified and registered by Santé Diabète)

- Beyond health care, how to deal daily with this socialy difficult to live with desease?

First ideas… why storing data?

« Each day is a new experience and an oppotunity to learn about myself »
Let allow participants to store the story of their day: morning glycemia, every food intake, physical activities, how I feel, evening glycemia and insulin admnistration…

⇒ I want to store this information for a better understanding of myself
⇒ I can do it as many times I want
⇒ Particular interest in special day (eg, social event, sport event…)

First ideas… why sharing data?

The story of their day: morning glycemia, every food intake, physical activities, how I feel, evening glycemia and insulin admnistration…

⇒ Stick to sharing practices on social network (Instagram as a source of inspiration)

⇒ Allow to ask questions to the community based on shared data

In case of acute health issues, the community manager (or other participants) signals the case to healthcare professional.

First ideas… quality data

The story of their day: morning glycemia, every food intake, physical activities, how I feel, evening glycemia and insulin admnistration…

$\Rightarrow$ One criteria: checking that professional healthcare are eventually interested in the data

Santé Diabète

Une communauté de pratiques chez les jeunes DT1 : apprendre à vivre avec son diabète

Un réseau social sécurisée, sans données personnelles (login fourni par le professionnel de santé)

Donnée élémentaire :

- Photo
- Catégorie
- Annotation

Journée complète : structurée et planifiée

Mes archives

-Photo
-Catégorie
-Annotation

Place du village

Les « story » à la une

Commentaires de la communauté, like, etc.

Salons thématiques de discussion contextualisée

Q1

Q2

Un corpus de données pour la recherche

MOSAIC
Méthodes et outils pour les sciences participatives

un centre de compétences

MUSÉUM NAL HIST NATURELLE

SORBONNE UNIVERSITÉ

Mosaic, “methods and tools for Citizen Science” is a scientific unit assisting other researchers in developing their citizen science project.

It was created in 2020, based on the accumulation of experience within the Museum and Sorbonne University over the past 20 years.

Mosaic is a trans-faculty unit assisting projects in all scientific fields: humanities, medical research, environmental and natural history sciences.

It also assists project hold by other stakeholders: public agencies, private companies… that wishes to involve networks of contributor in data production.

MOSAIC
Méthodes et outils pour les sciences participatives

un centre de compétences

MUSÉUM NAL HIST NATURELLE

SORBONNE UNIVERSITÉ

Mosaic, “methods and tools for Citizen Science” is a scientific unit assisting other researchers in developing their citizen science project.

Mosaic assists emerging projects (incubation, co-conception: protocol stabilization, questioning motivation of future participants, considering other stakeholder involvement…),

It can develop proofs-of-concept, experimental projects, as well as assisting more mature projects, up to the conception and development of dedicated IT tools (including UX and UI design – full web team of 11 people).

About 15 projects benefited from it since 2020 and 15 more are scheduled in the coming 2 years. Mosaic is mostly financed by the research projects that are assisted, usually through research partnership.