

Blending the tangible and digital to craft new co-designed interactions for museums.

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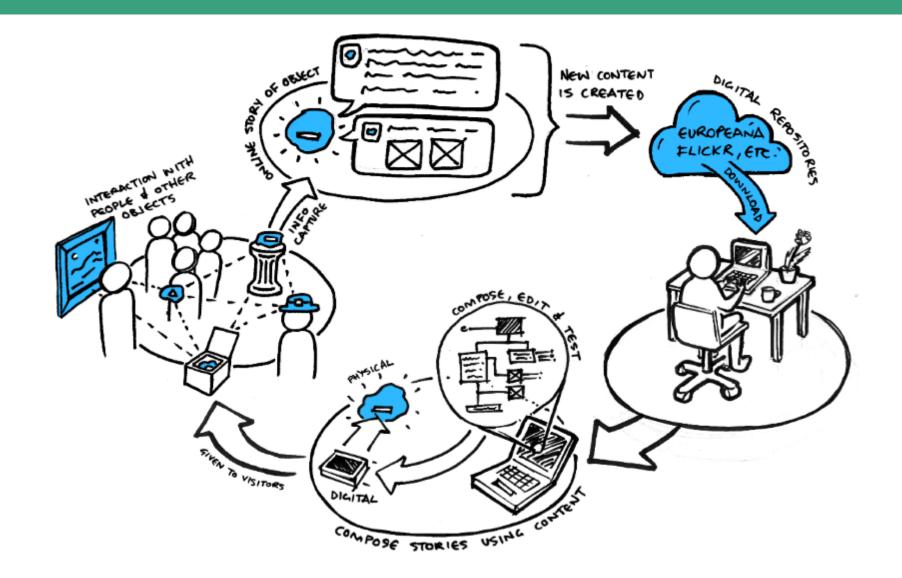


Blending the tangible and digital to craft new co-designed interactions for museums.

Nicholas Dulake Daniela Petrelli

Sheffield Hallam University

meSch







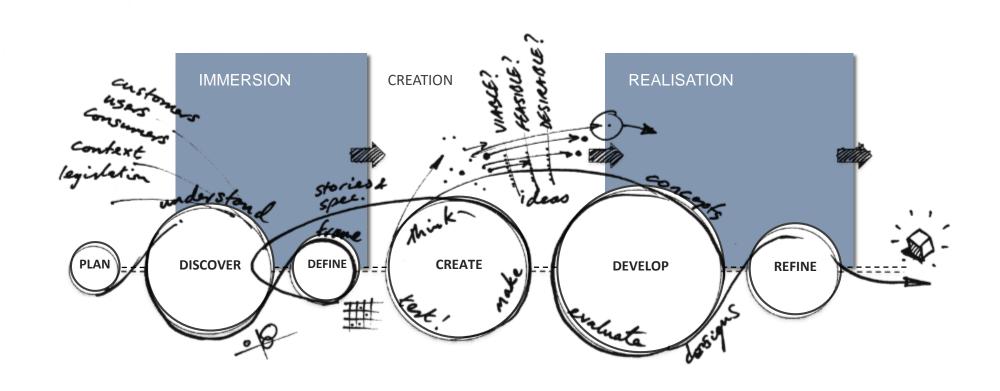


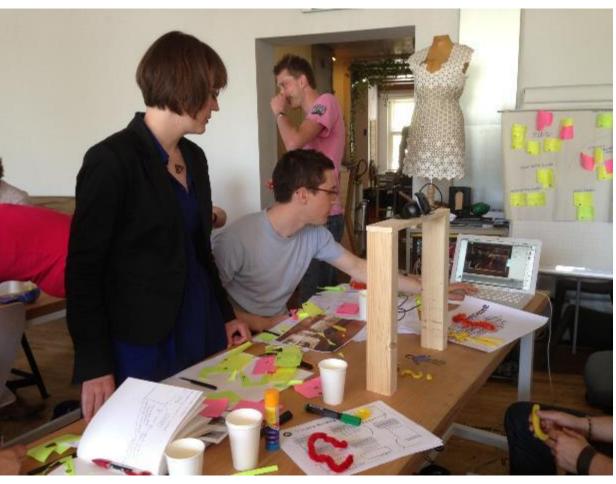






meSch design process

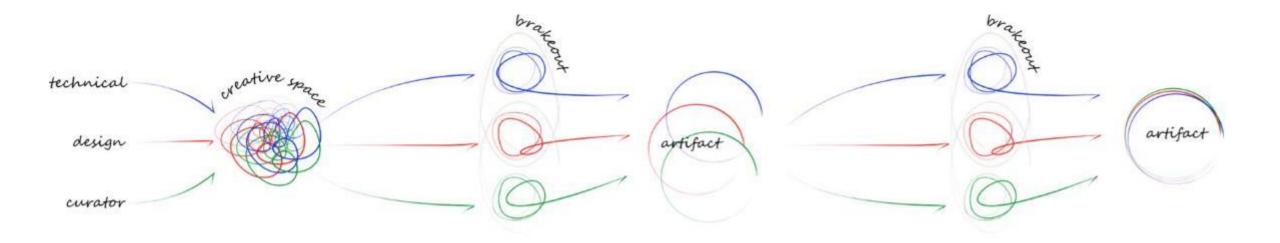








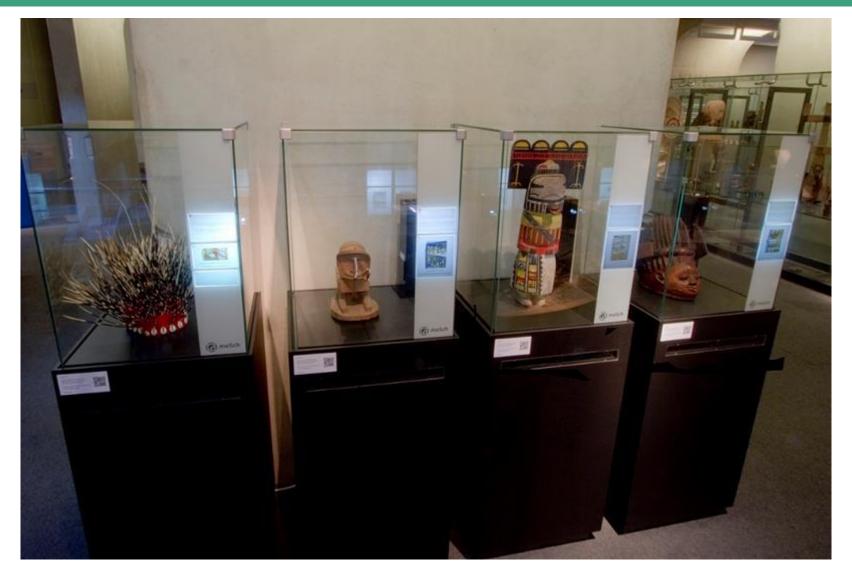
meSch artefact focus







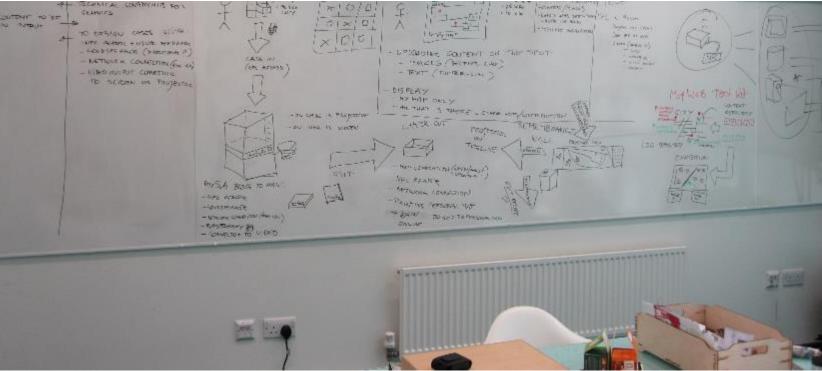
Inspiration





co-design







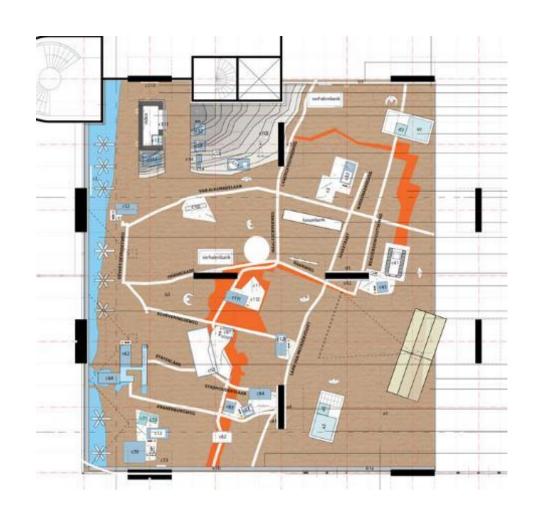
Overall concept

- Choice between three different perspectives
 - Dutch citizen
 - Civil servant
 - German soldier
- Started by means of a replica
- Sound clips supported by images from archives
- Based on historical resources
 Archives, newspapers, oral history
- Choice of language



Exhibition staring point

- 400 m²
- Floor plan reflects The Hague city plan
- Connects past and present
- No fixed route





meSch requirments

- Fully integrated
- Possible to visit the exhibition without meSch technology
- meSch as an additional layer
 Personal, evocative. Not about facts
- Connected to real objects
 Take into account noisy environment
- Exhibition design by external company



Activation hardware

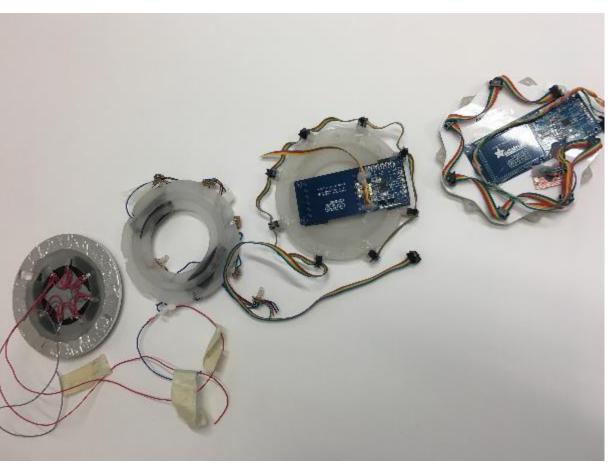


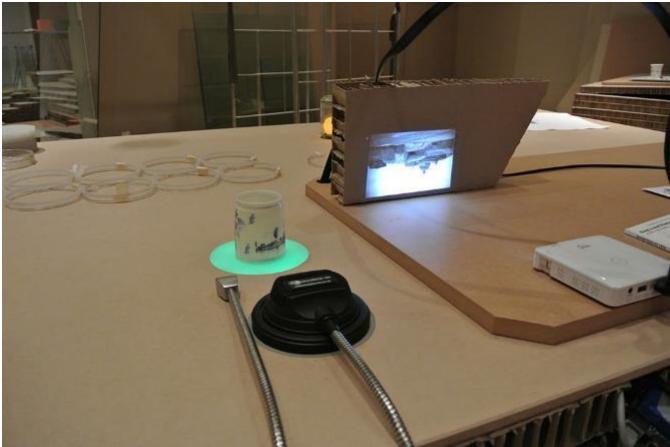






Activation hardware







Smart replica





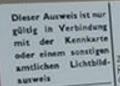












Deze vergunning is Geboren by dergelijk van over- Hand Thempillag St wordt getoond

> Equitarily: CHESTALANA

Handseekening van den houder

NADRUE VERSOREN

VERGUNNING Nr.

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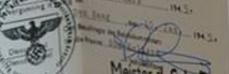
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VERVANGT SUIKER ZONDER BIJ OF NASHAK

SUIKERWERKEN ANSTERDAM WITE BOILS















Kies je verhaal Choose your story



Wat betekende de Atlantikwall voor het dagelijks leven in Den Haag? Voor de ambtenaren die de evacuaties, de sloop en - na de bevrijding - de wederopbouw van de stad moesten regelen? En voor de Duitse soldaten, die hier gelegerd waren?

Verdiep je bezoek aan de tentoonstelling. Kies een replica, leg hem op de oranje cirkels naast de vitrines en luister naar de geluidsfragmenten die zijn samengesteld op basis van interviews, historische kranten en archiefstukken.



What impact did the Atlantic Wall have on everyday life in The Hague? On the officials who had to organise the evacuations, the demolitions and – after the liberation – the reconstruction of the city? And on the German soldiers who were based here?

Get the most out of your visit by choosing a replica and placing it on the orange circles next to the display cases to listen to sound collages drawn from interviews, period newspapers and archive material.

- Deze bierpul kregen Duitse soldaten tijdens Kerstmis 1943 als herinnering aan de legering langs de Atlantikwall.
- 2 De Duitse bezetter had een avondklok ingesteld. Als je na acht uur 's avonds beroepshalve op straat moest zijn, droeg je deze armband.
- 3 Thee was niet meer verkrijgbaar, maar met ingrediënten als eikels, witlof, appel en krokus viet iets te maken wat op thee leek.

- 4 This booklet helped German soldiers communicate with the Dutch population.
- 5 The German occupation authorities had imposed a curfew. If you had professional reasons for being out on the streets after eight o'clock in the evening, you needed a special pass (Sonderausweis).
- 6 Genuine sugar was in short supply; this was a substitute sweetener.







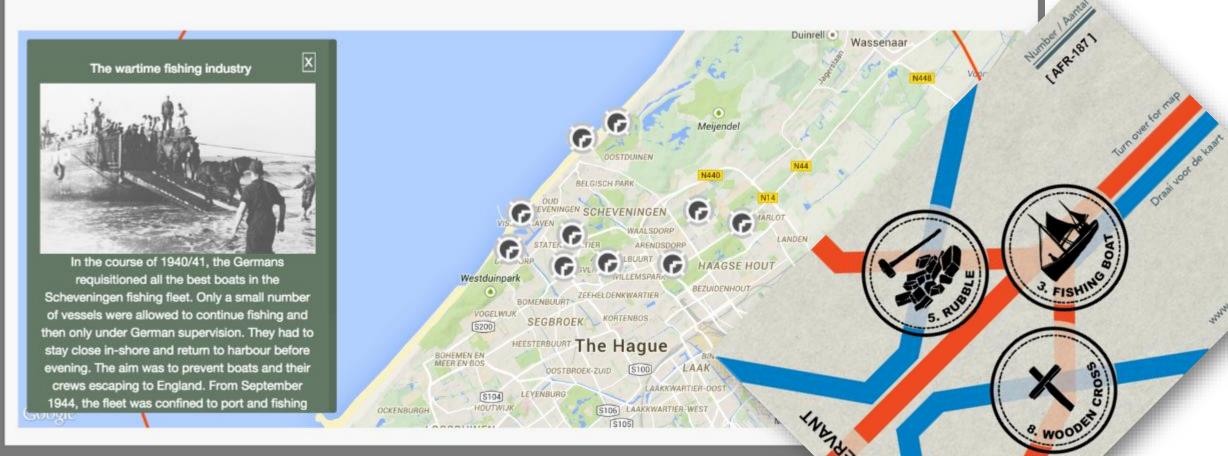
Checkout station







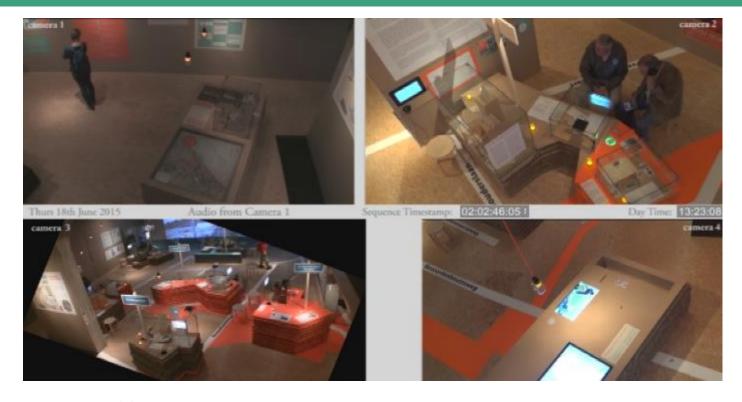
Click on the map to add a new location



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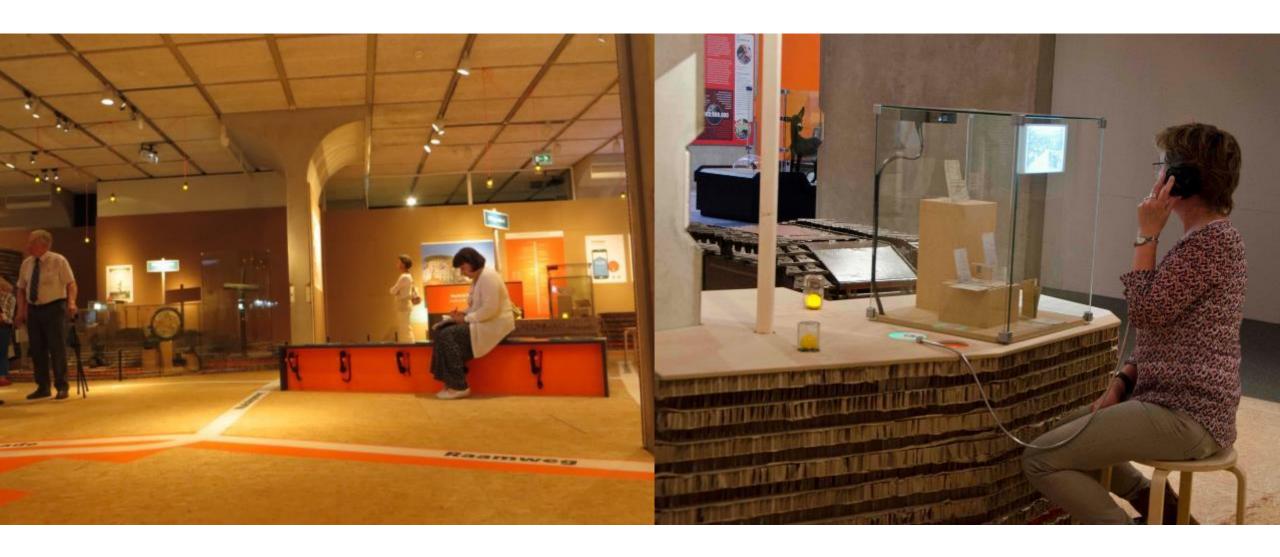


Evaluation



- 4 different cameras over 9 days
- 37 hours and 50 minutes of video captured
- Conversations at the smart replica station



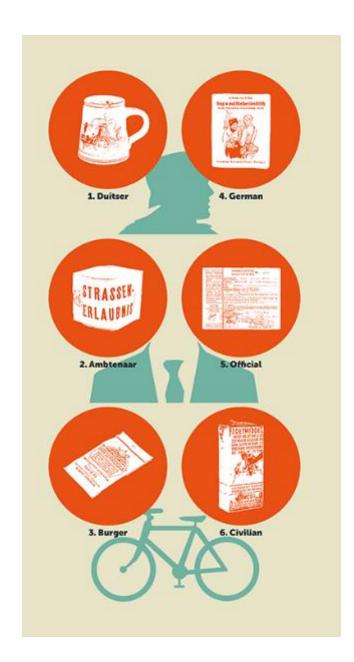


logs

- Total visitor sessions: 14,853 [out of 20,000)
- Average sessions per day: 75
- Peak sessions per day: 187
- Average contents view per session: 48.5%

10 meSch points with 2 to 3 minutes of contents





Perspective	Dutch	English	
Soldier	4768	936	5704
Civilian	4484	1769	6253
Civil Servant	2352	544	2896



Regular visitor study: duration of stay

	Atlantikwall	Ø
< 30 min	15%	10%
30 – 60 min	53%	41%
> 60 min	32%	49%



Appreciation of replicas

Al-Arab	7.0
Heksen	7.4
Speed	7.7
Scheepvaart	7.8
Wetenschap	7.8
Imitatie	7.8
Atlantikwall	7.8
Plantastic	8.0
LL	8.1
Dino Jaws	8.3
Moordzaken	8.4
High Tech Rom.	8.4
Wildlife 2007	8.4

Use of replicas appreciation: 8.0

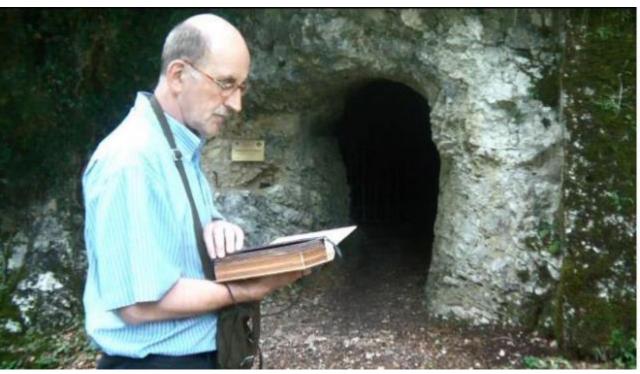


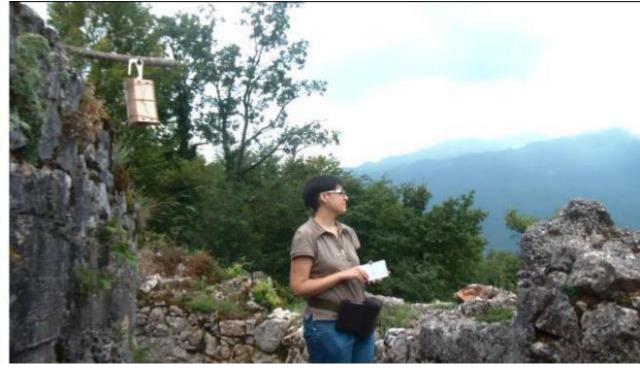






Inspiration









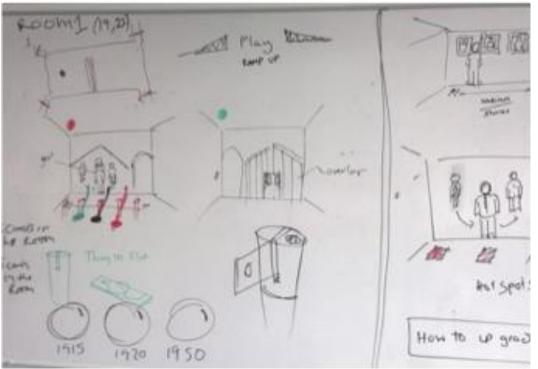






Concept brainstorming & exploration



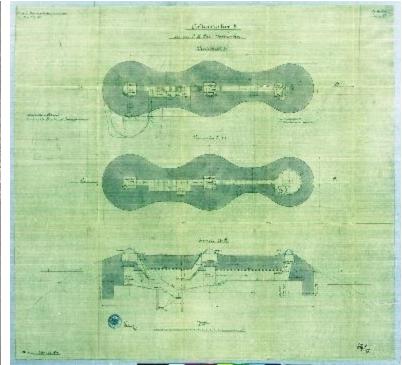


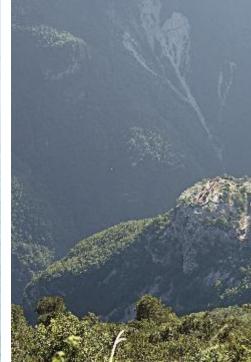










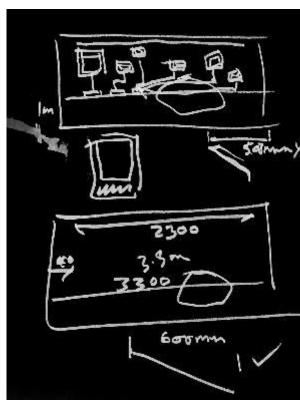




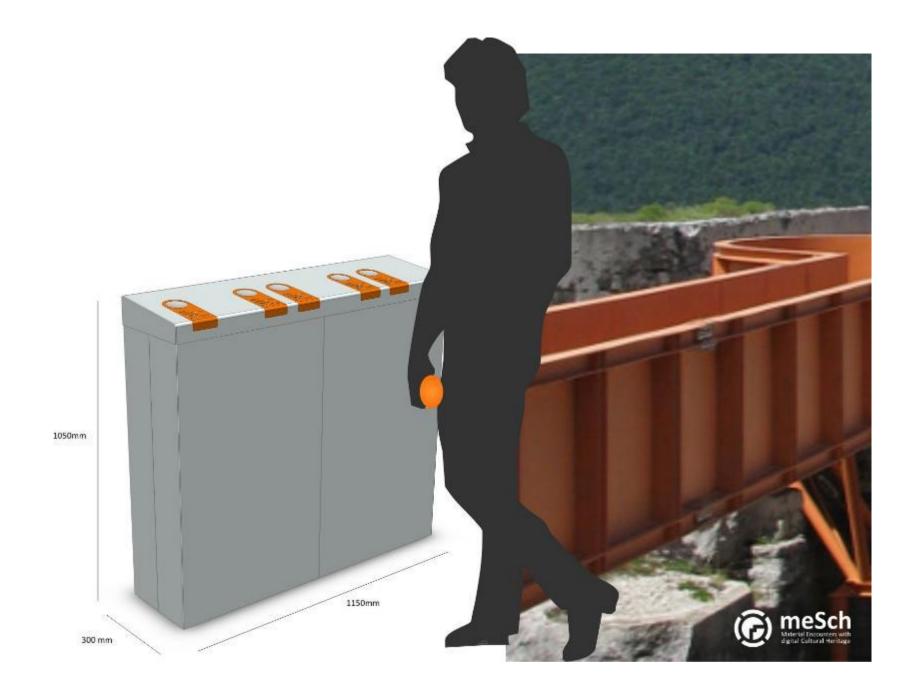
In-situ testing

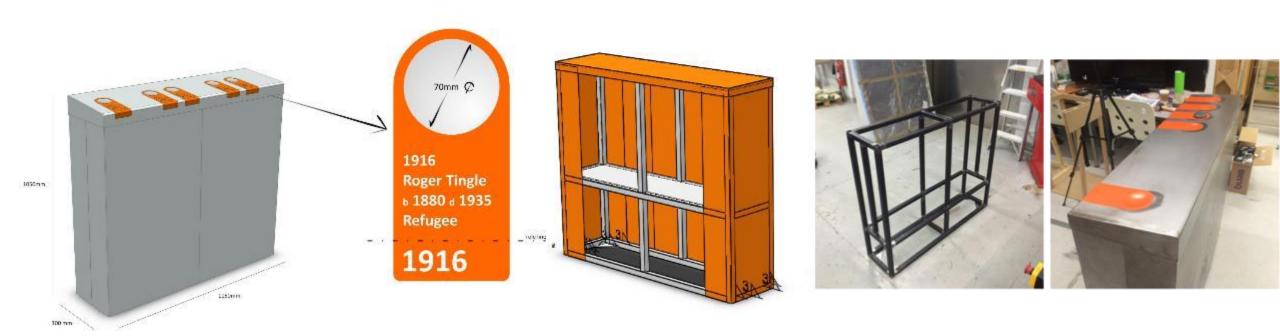




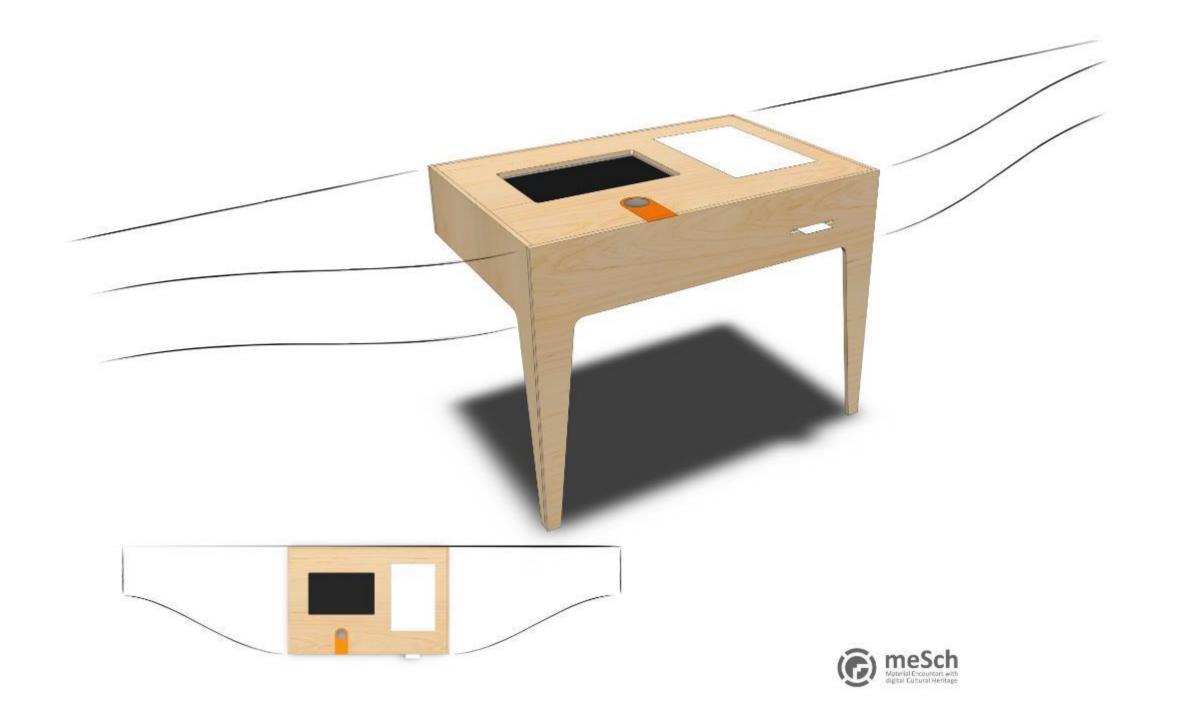












"VOCI DAL FORTE DI POZZACCHIO"

"Sezione Artiglierie della Grande Guerra Museo Storico Italiano della Guerra"





NFC tag





HE MAGGIO 1916



28-29 GIUGNO 1916 Adelino Ballarini caporale italiano



28-29 GIUGNO 1916 Magnus Hager cappellano austro-ungarico



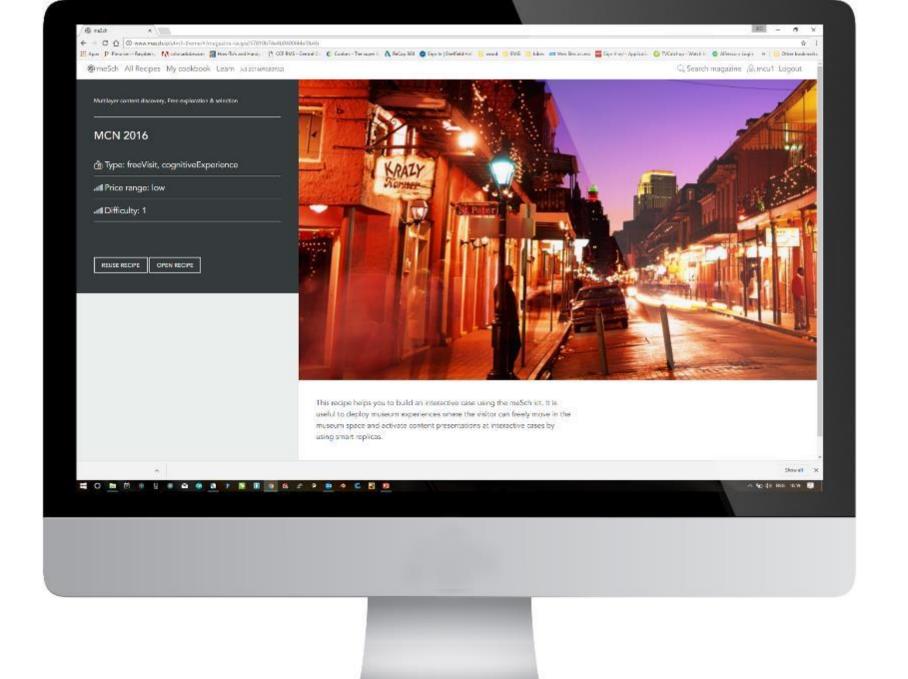
28-29 GIUGNO 1916

Gustav Linert
ufficiale austro-ungarico

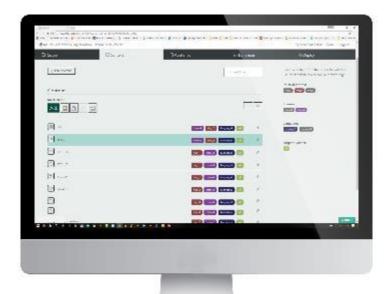
Uso dell'oggetto attivante: il "pebble"

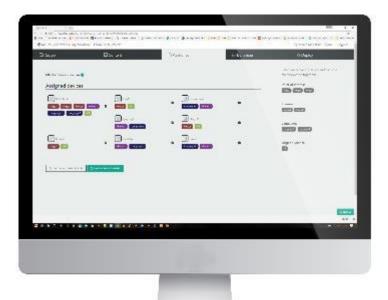
Using an activating object: the "pebble"





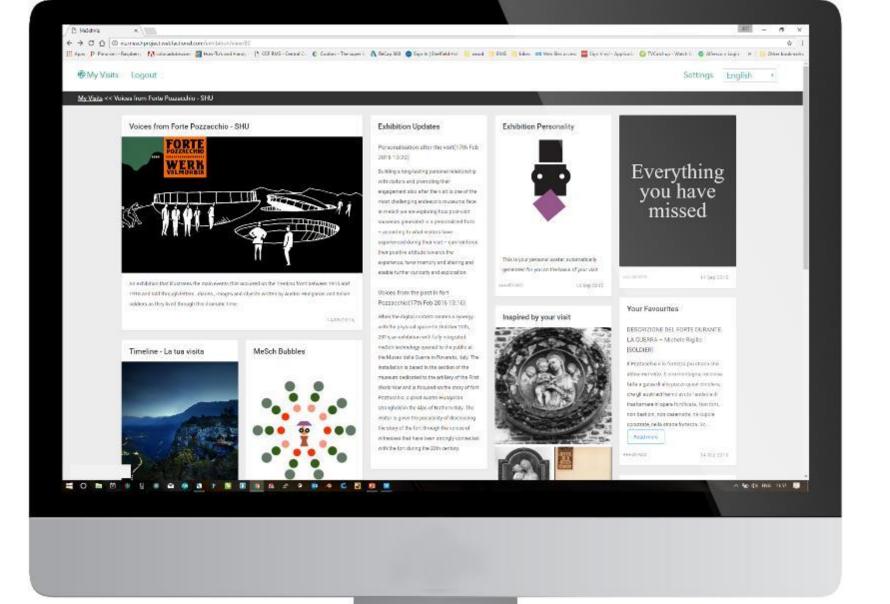








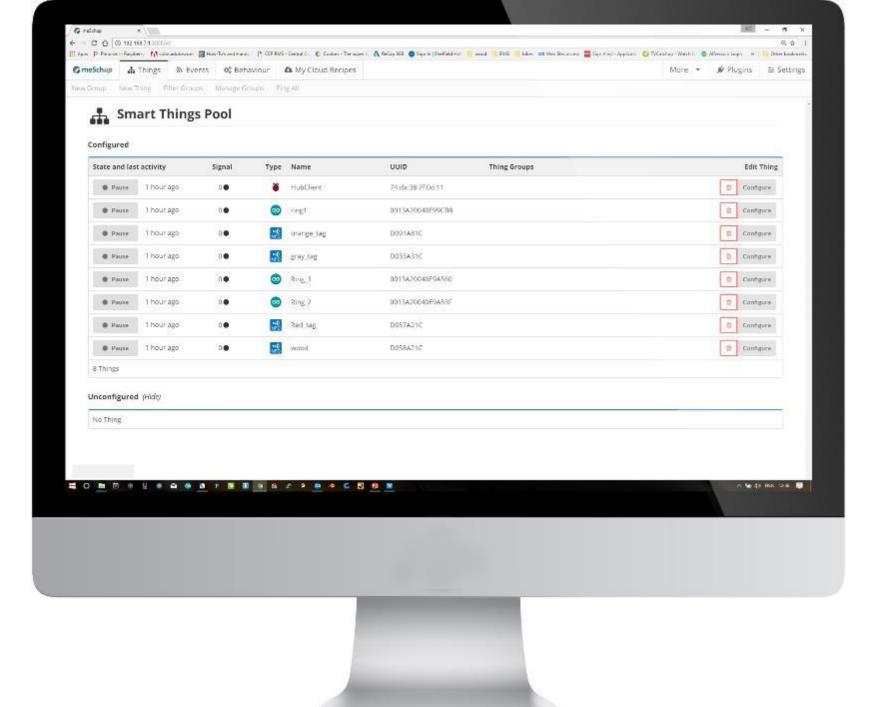






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