

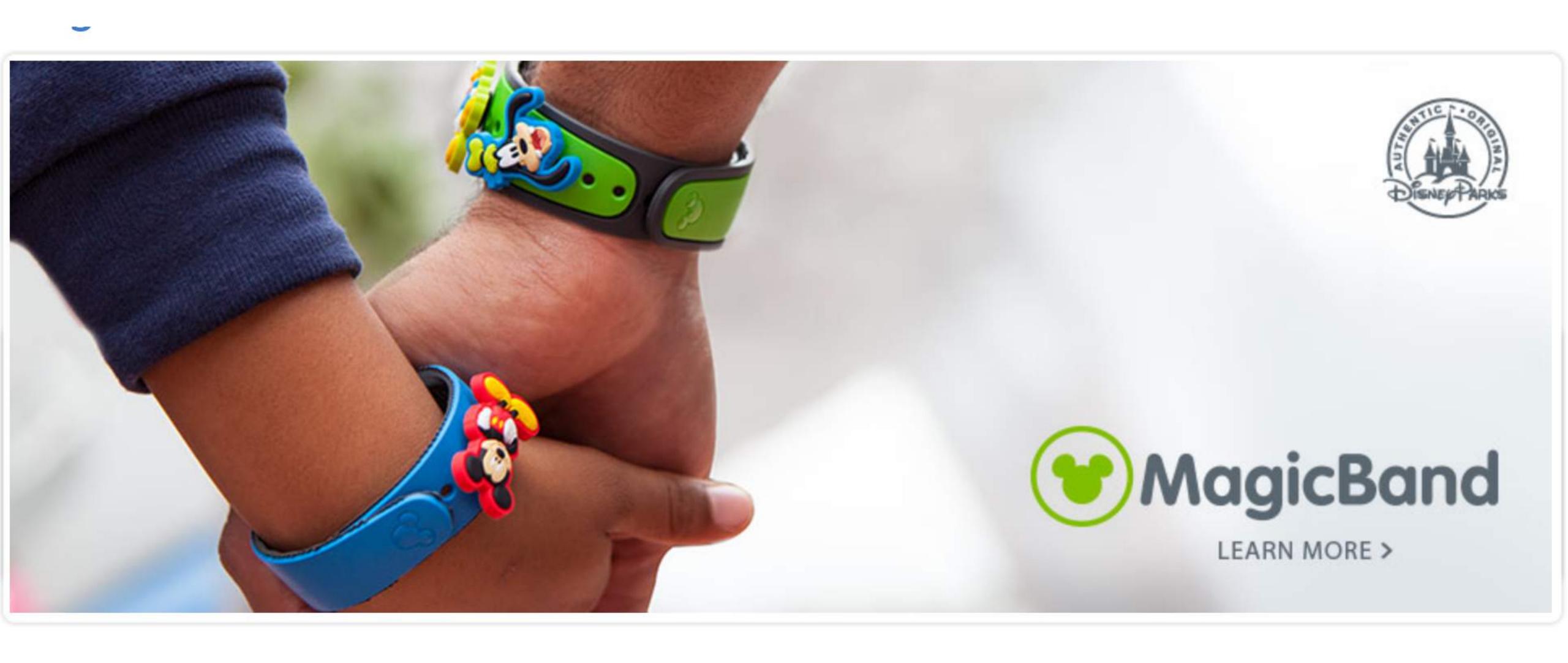
museums and libraries as sites where an alternative smart city might be glimpsed

loss of public space public space as digital space



garbage bin as network tracker, london 2012

quantification of the city quantification of culture



MyMagic+, Disneyland, 2008 (Magic Band, 2013)

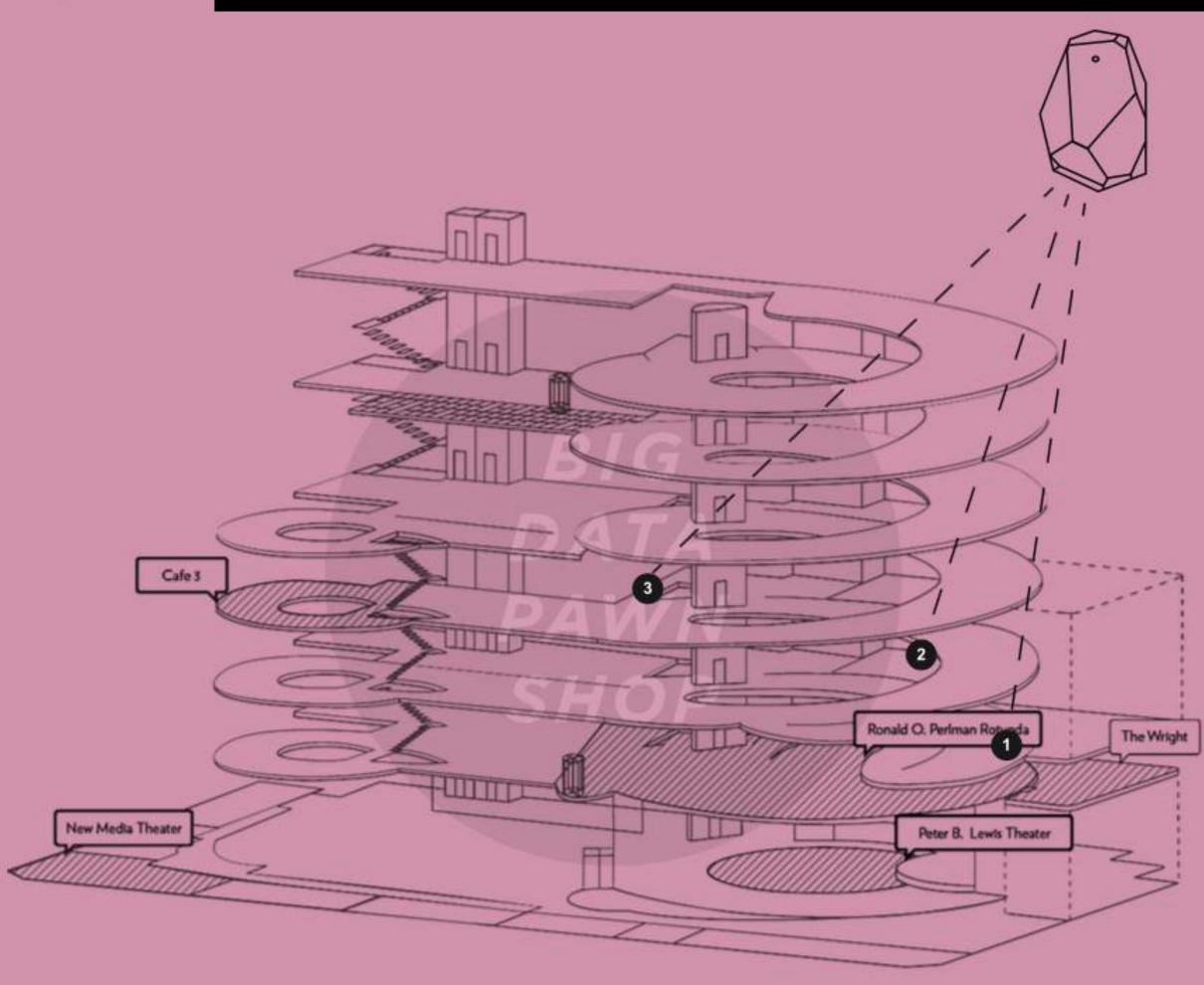
Apps & APIs
Bluetooth LE
WiFi tracking
Cellphone triangulation

Guggenheim iBeacon N°1

Recorded on December 20, 2014 at 40°46'58.5"N 73°57'32.0"W

```
Source
                                          Destination
        Time
        0.000000
MFrame 1: 69 bytes on wire (552 bits), 69 bytes captured (552 bits)
  Encapsulation type: Per-Packet Information header (97)
  Arrival Time: Dec 19, 2014 23:31:21.289127000 EST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1419049881.289127000 seconds
  [Time delta from previous captured frame: 0.000000000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 0.000000000 seconds]
  Frame Number: 1
  Frame Length: 69 bytes (552 bits)
  Capture Length: 69 bytes (552 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: ppi:user_dlt:btle:btcommon]
PPI version 0, 24 bytes
  Version: 0
  Flags: 0x00
    .... 0 = Alignment: Not aligned
    0000 000. = Reserved: 0x00
  Header length: 24
  DLT: 147
  Reserved: 36750c00006209000c6e4b2600000000
DLT: 147, Payload: btle (Bluetooth Low Energy Link Layer)
Bluetooth Low Energy Link Layer
  Access Address: 0x8e89bed6
  Packet Header: 0x2440 (PDU Type: ADV_IND, TxAdd=false, RxAdd=false)
    ..00 .... = RFU: 0
    .1.. .... = Randomized Tx Address: True
    ...0 .... = Reserved: False
    .... 0000 = PDU Type: ADV_IND (0x00)
    00.. .... = RFU: 0
    ..10 0100 = Length: 36
  Advertising Address: de:c1:95:1e:39:b4 (de:c1:95:1e:39:b4)
  Advertising Data
```

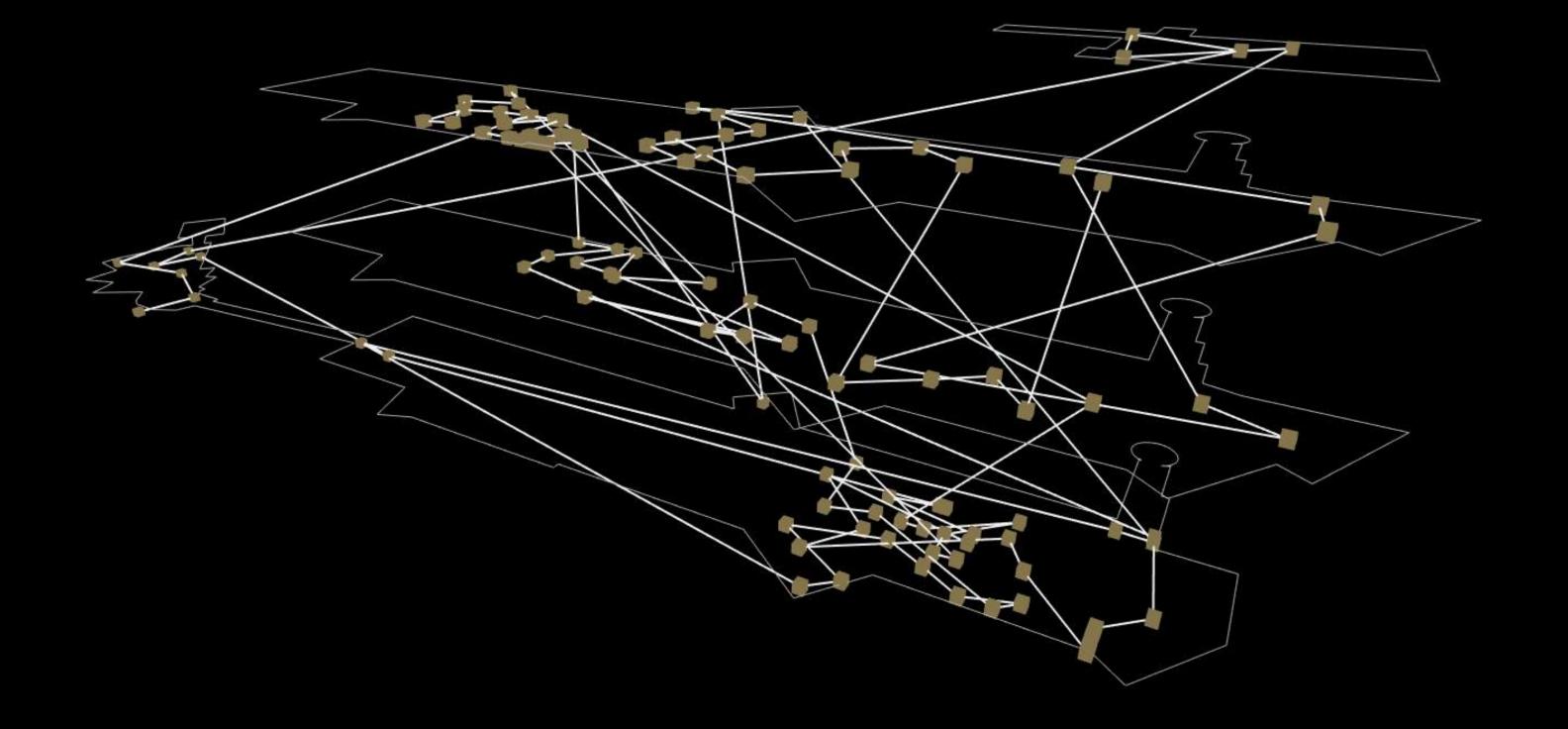




adam harvey, big data pawnshop, 2014



Time Range: 10:00 AM to 5:00 PM



 $\leftarrow \rightarrow$

seb@snarl.org

Logout

My Tours

Wednesday 26 October 2011

Filter

Viewed

Results for:

Wednesday 26 October 2011

Viewed



FAT CAR

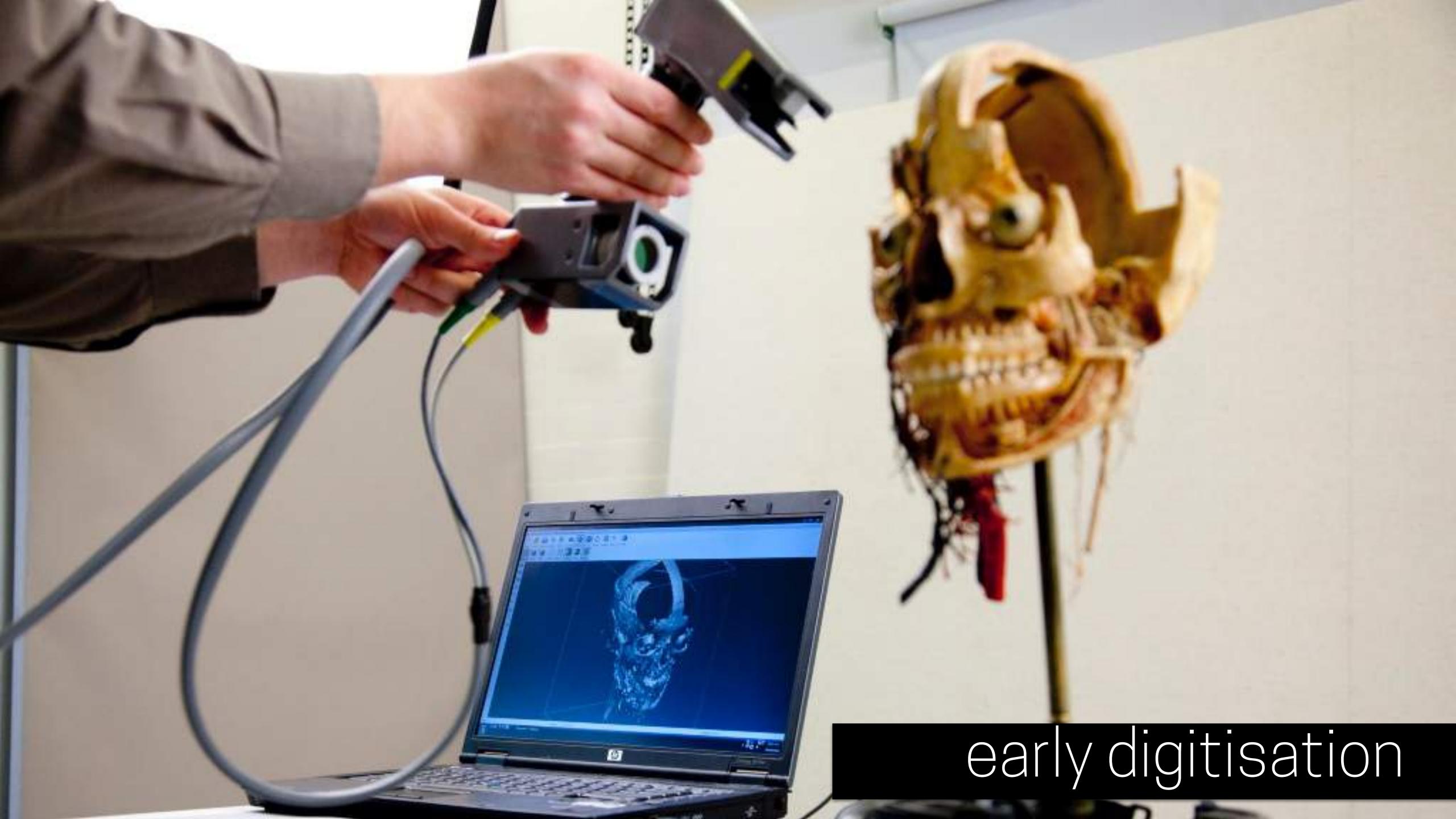
Erwin Wurm

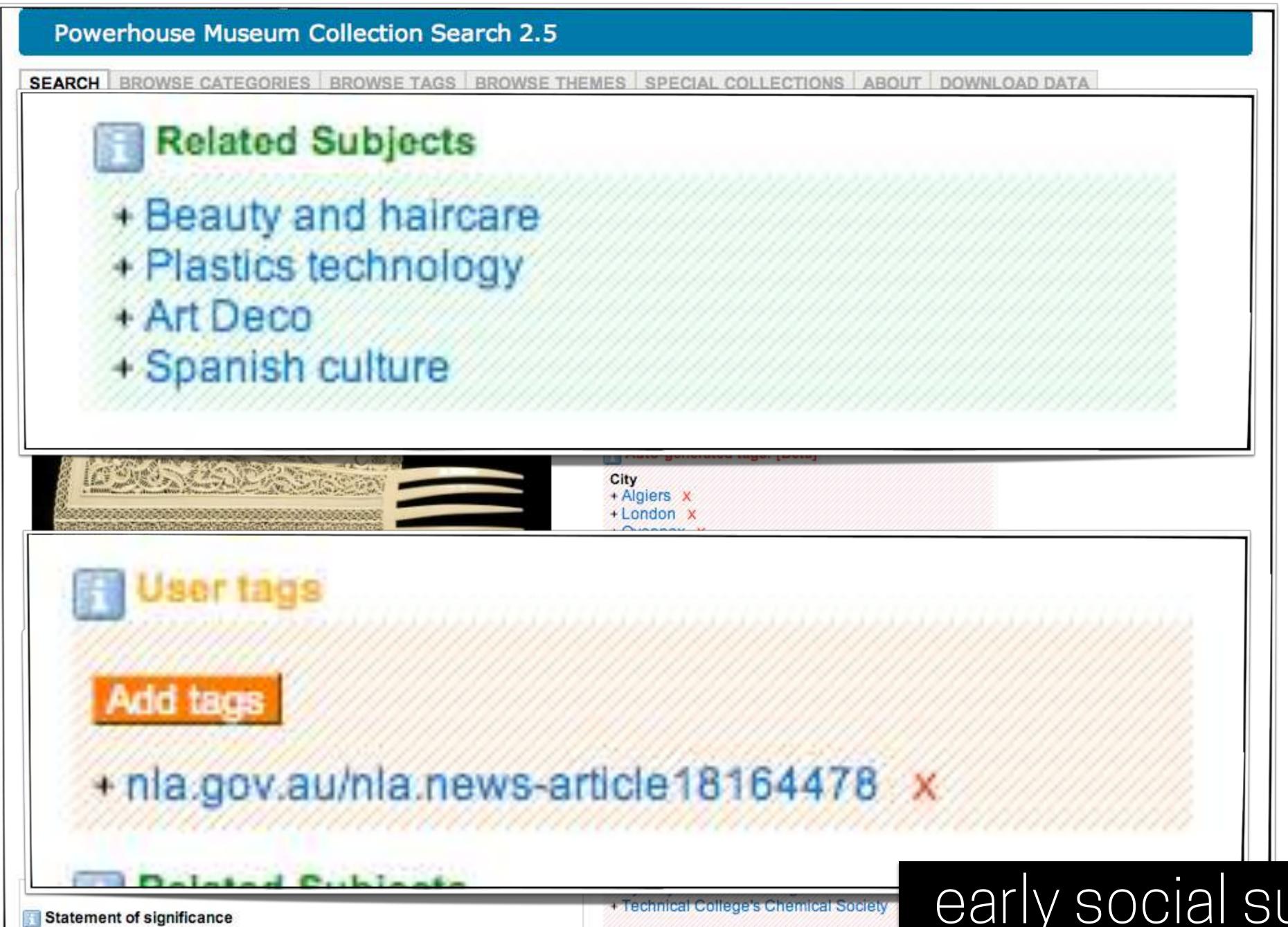
visitor maps at MONA, 2011



it wasn't always so dystopian







early social success



first museum with downloadable data & (patchy) API in 2008

api.powerhousemuseum.com





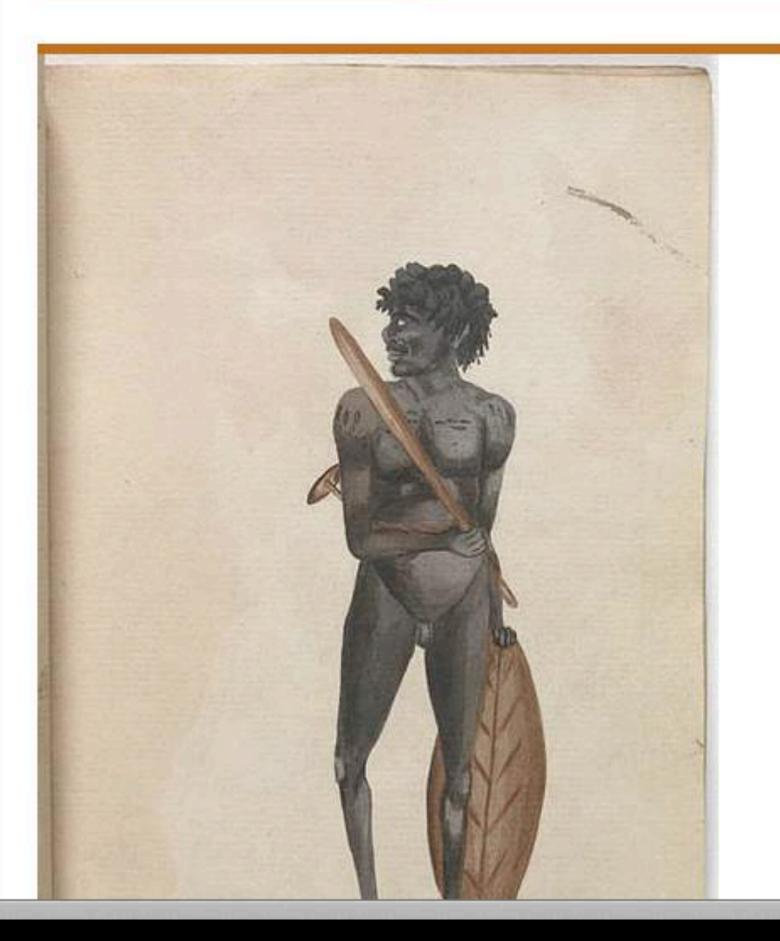
Search for...

HOME

MY SUBURB

ENCYCLOPÆDIA

CENSUS STATISTICS



ANIMALS

CULTURE

ECONOMY HISTORY

PEOPLE

PLACES PLANTS

FEATURED ARTICLES



A brief history of New South Wales

READ STORY



Bermagui

READ STORY



Mosman

READ STORY

about this site

Welcome to 'about NSW', a new site dedicated to showcasing the diversity of people, places and things to see and do in NSW.

GIVE US YOUR FEEDBACK

ABOUT THE SITE

CONTACT US

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TECHNICAL REQUIREMENTS







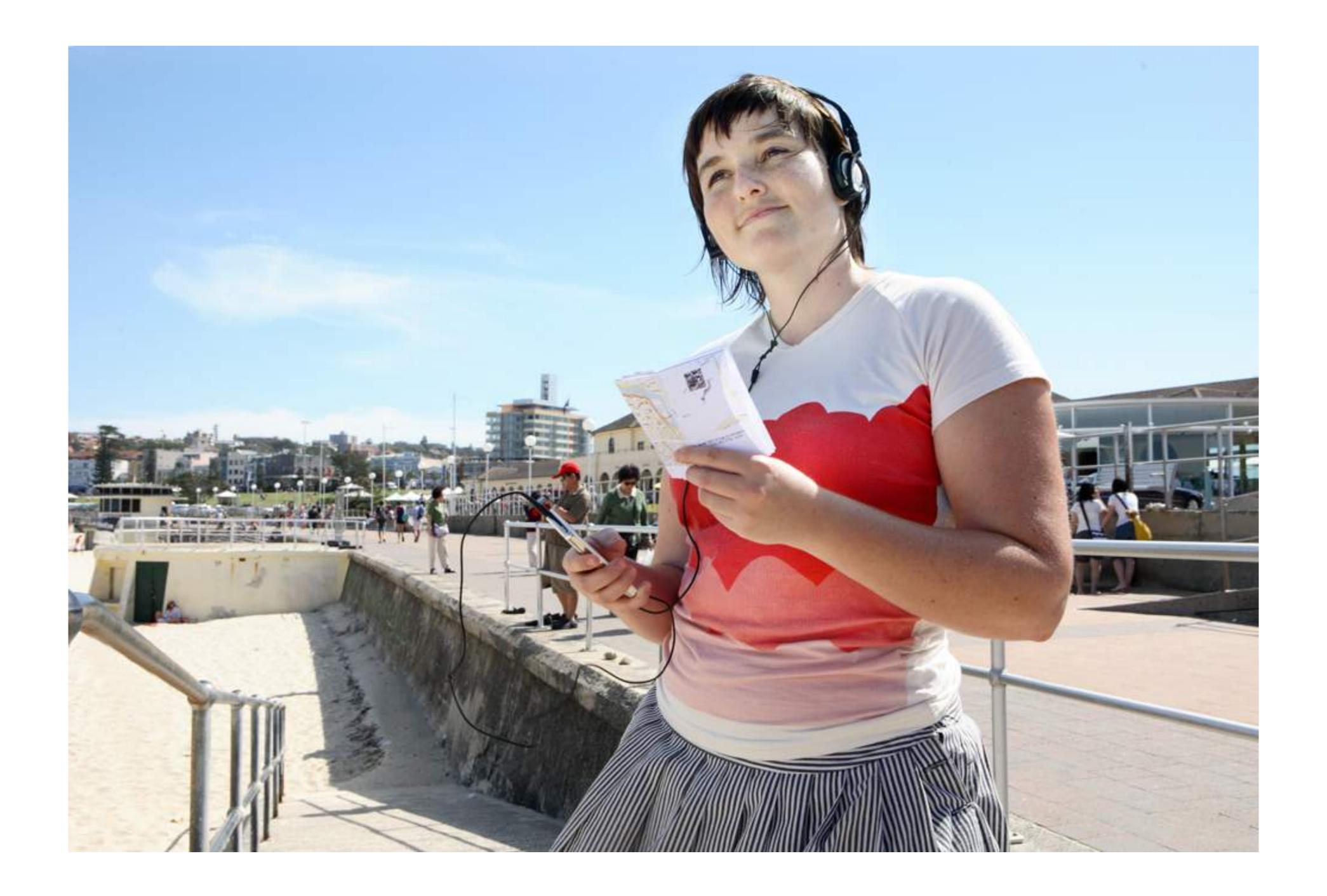




how might we connect the museum to the world outside?



layAR 2009



museums as democratic spaces museums as curiosity machines







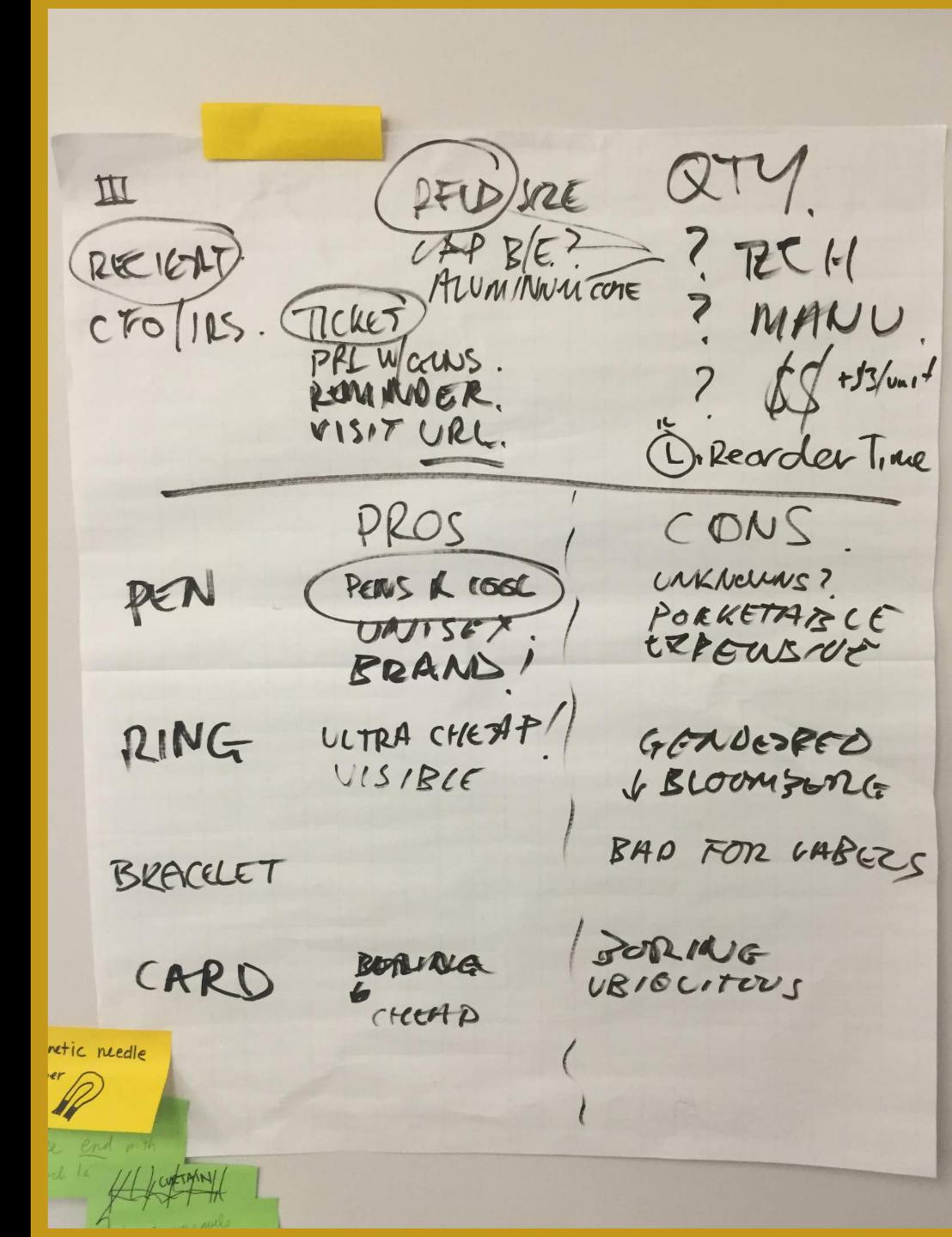
the museum as a physical and social interface to a digital (and physical) archive

if every object was digitised, online, and addressable how might we train visitors to use the building differently?

even though every object would be online we needed to assert the importance of physically visiting

so we made a thing magic wand

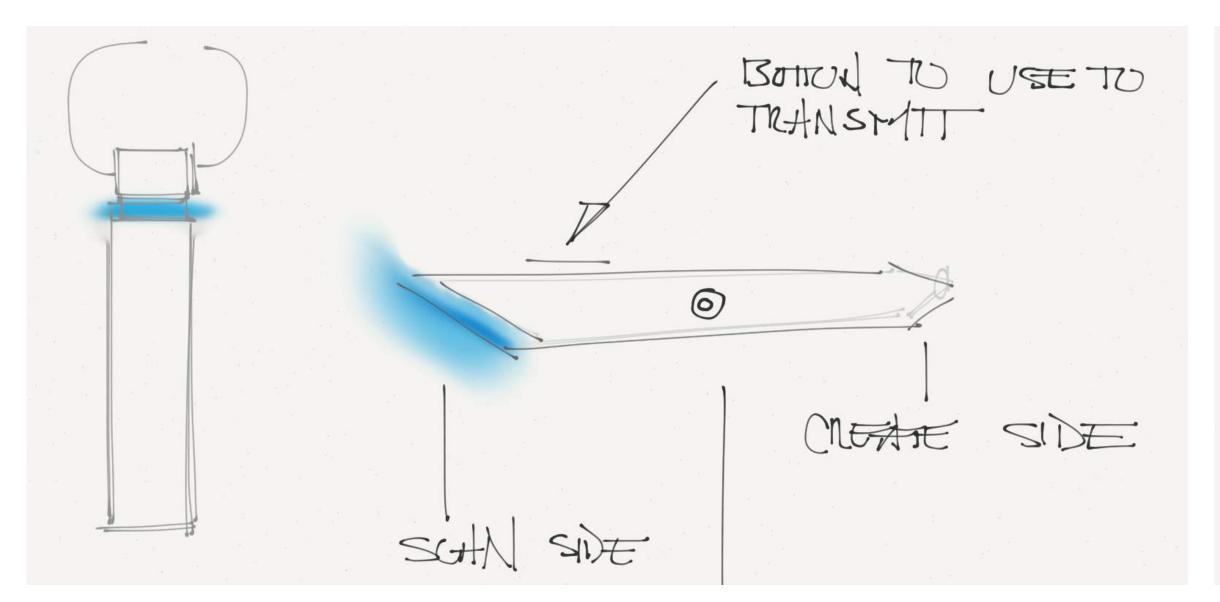
a bit like a magic library card, or a transit pass, except not a card

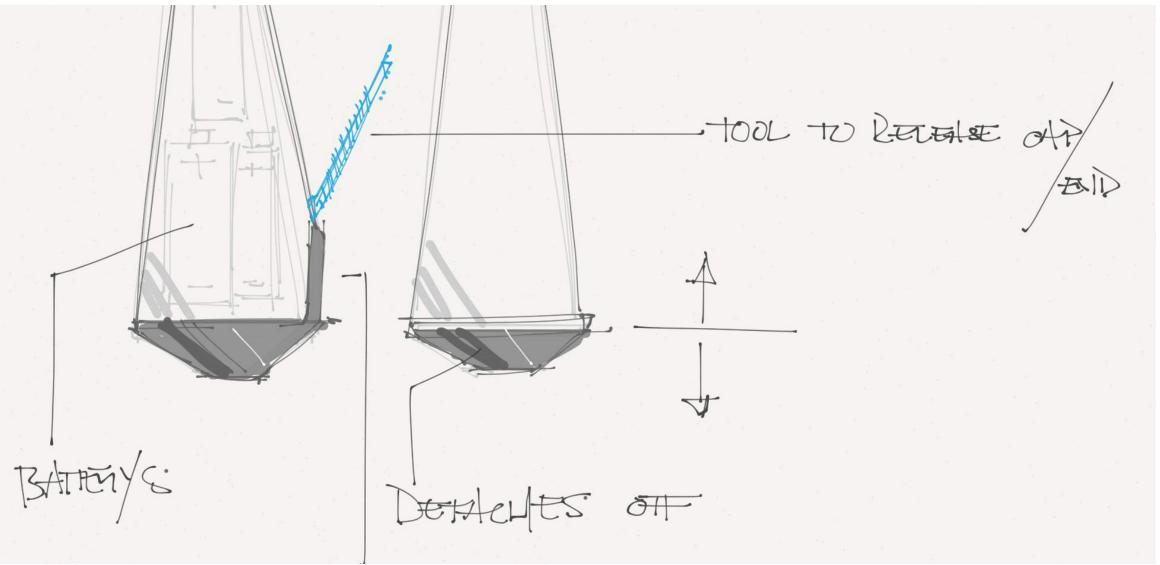


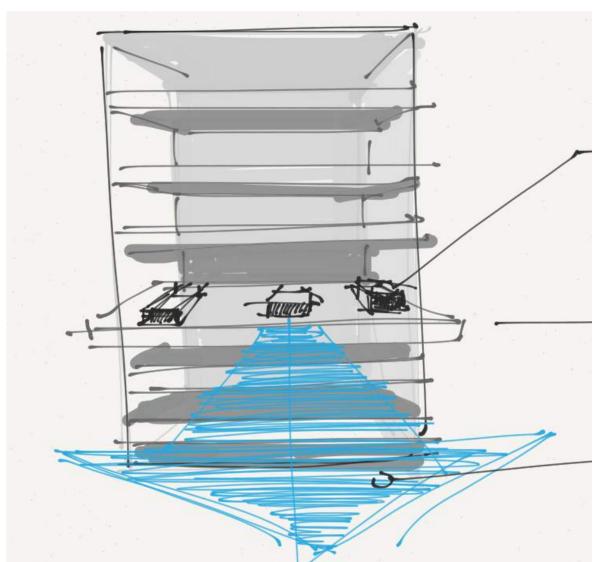
+ portable NFC reader
NFC enabled museum labels
paired with museum entry ticket

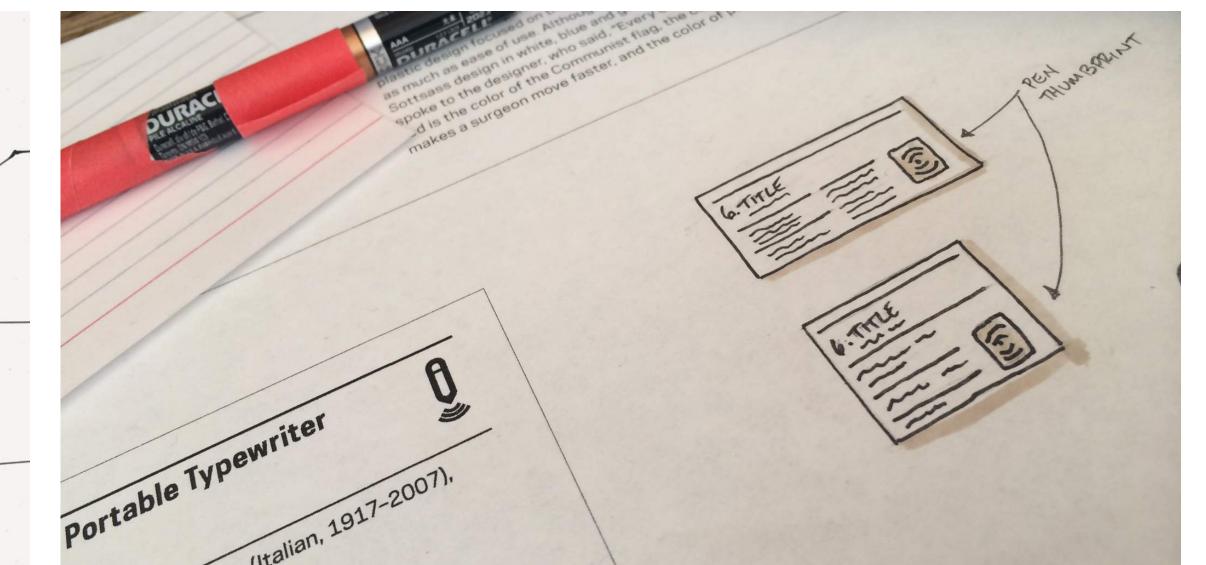
battery charging time shared design language multiple colors create desirability what to do with the stuff on pen how durable is it didn't receive data on phone cleanable & sanitization don't want to work hard trouble with account when home ease of manufacture children losing pen better than a smartphone can't see the NFC icons create desire to use screen & pen calibration am I doing it right is this distracting from the objects on display what kind of feedback pen won't sync pen is too subtle where to store all the pens how intuitive is it

cooper hewitt pen design focus





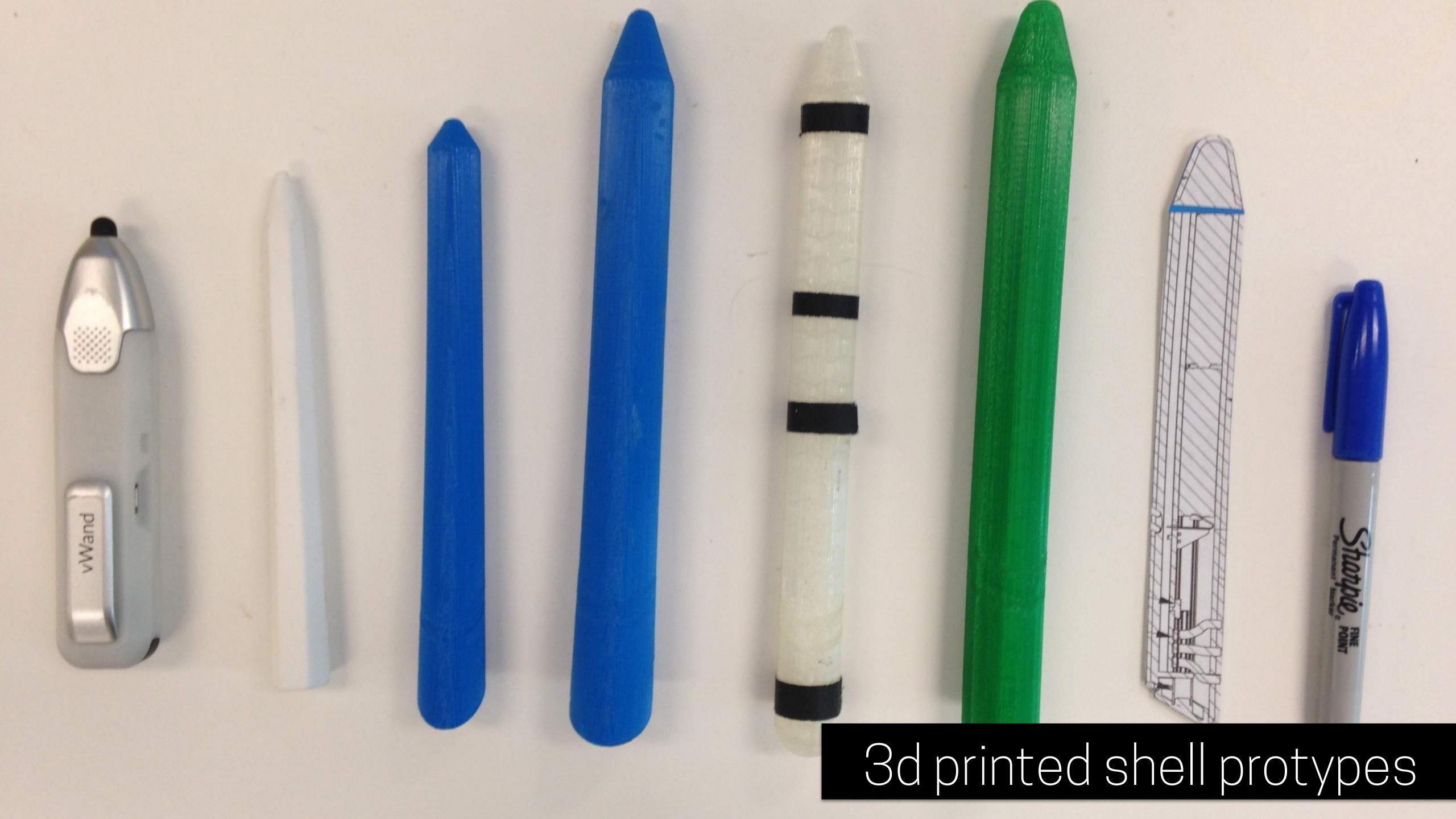








product design sprint with GE



NFC reader

capacitive stylus







full backstory of making the pen http://bit.ly/cooperhewittpen

(chan & cope 2015)



the pen in operation

playful and generous interfaces

browse not search

API METHODS

API documentation API methods API formats Create a new API key Your API keys Your access tokens

API.SPEC

api.spec.formats

Return the list of valid API response formats, including the default format Take this API method for a spin

api.spec.methods

Return the list of available API response methods.

Take this API method for a spin

API.TEST

api.test.echo

A testing method which echoes all parameters back in the response.

Take this API method for a spin

api.test.error

Return a test error from the API
Take this API method for a spin

COOPERHEWITT.OBJECTS.LOCATIONS.SITES

cooperhewitt.objects.locations.sites.getFloors

Return the list of floors for a specific location site.

Take this API method for a spin

cooperhewitt.objects.locations.sites.getInfo

Return detailed information for a location site.

Take this API method for a spin

cooperhewitt.objects.locations.sites.getList

Return the list of location sites. Take this API method for a spin

cooperhewitt.objects.locations.sites.getObjects

Return the list of objects that have ever visited a specific location site.

Take this API method for a spin

COOPERHEWITT.OBJECTS.LOCATIONS.SPOTS

cooperhewitt.objects.locations.spots.getInfo

"the API as public infrastructure"

anonymous

respectful of visitor privacy with opt-in accounts



YOUR STUFF -

TOYS-

EXPLORE THE COLLECTION -

RANDOM

YOUR VISIT TO THE MUSEUM ON JULY 26, 2015





Search

SEARCH YOUR VISIT

This visit has the code kzcr and is associated with 26 items.

- Make your visit private
- < Share your visit
- Download your visit
- × Delete your visit

 $\subseteq \times$

11:51 AM

 $\mathbf{x} =$

Teapot (Ch

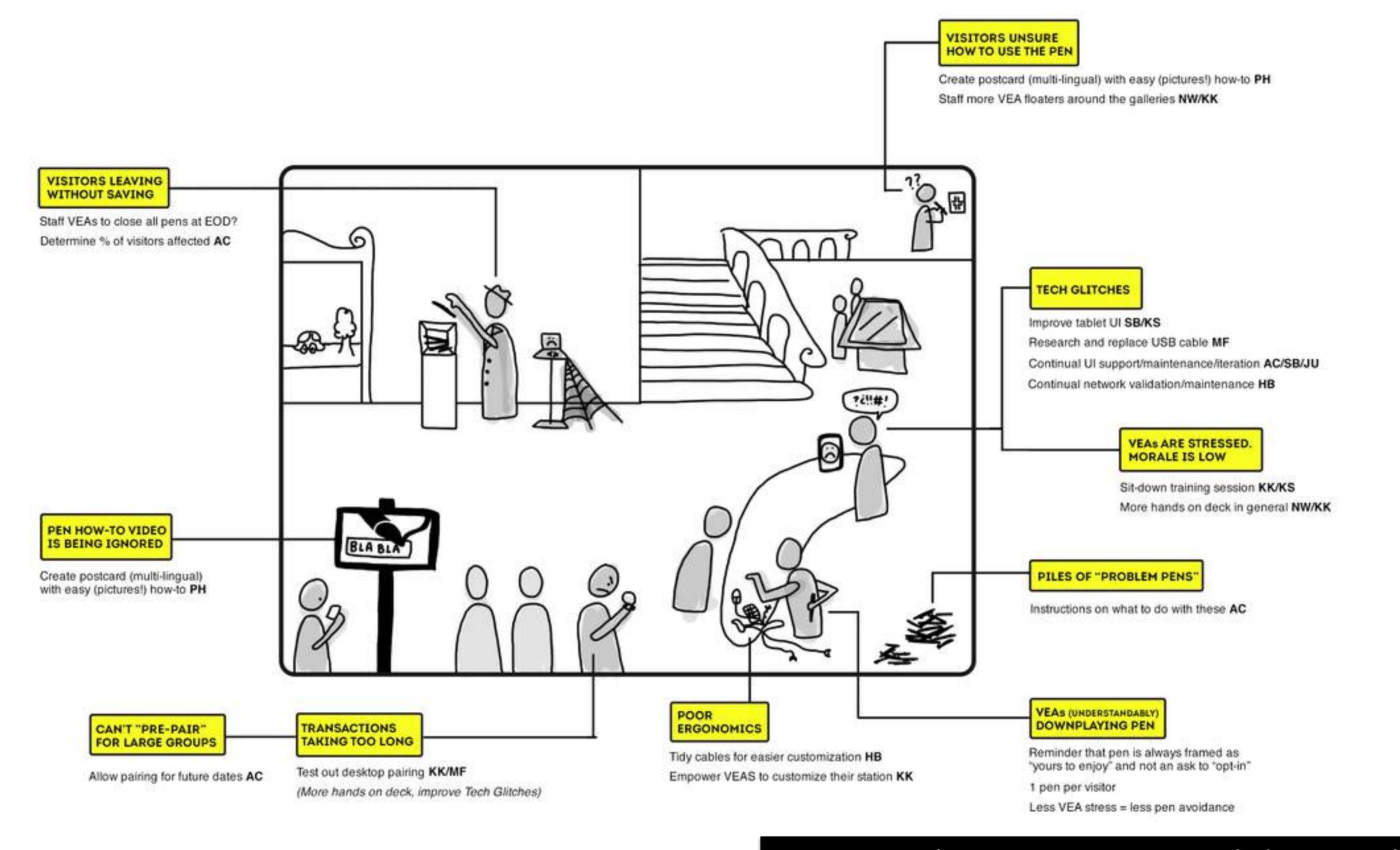
download and/or delete your data

people not 'technology' is what makes it successful.



"seamful-ness" not seamlessness

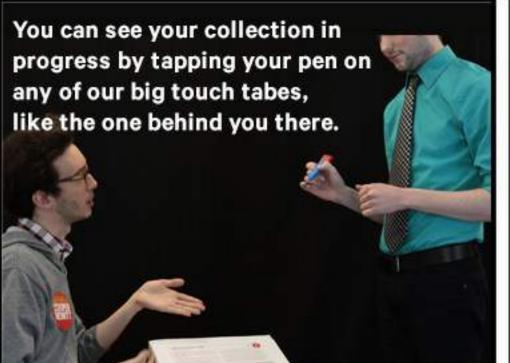
both the challenge and the opportunity is that the work is never finished



week one UX problem sketch





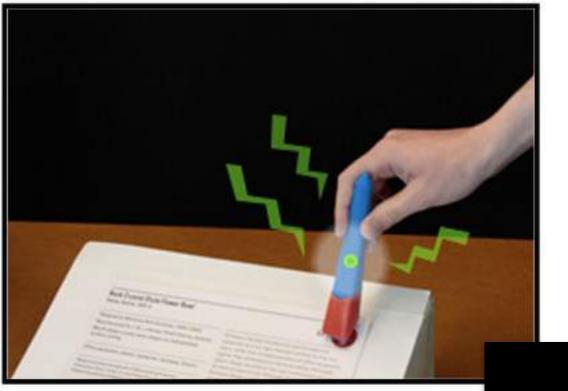












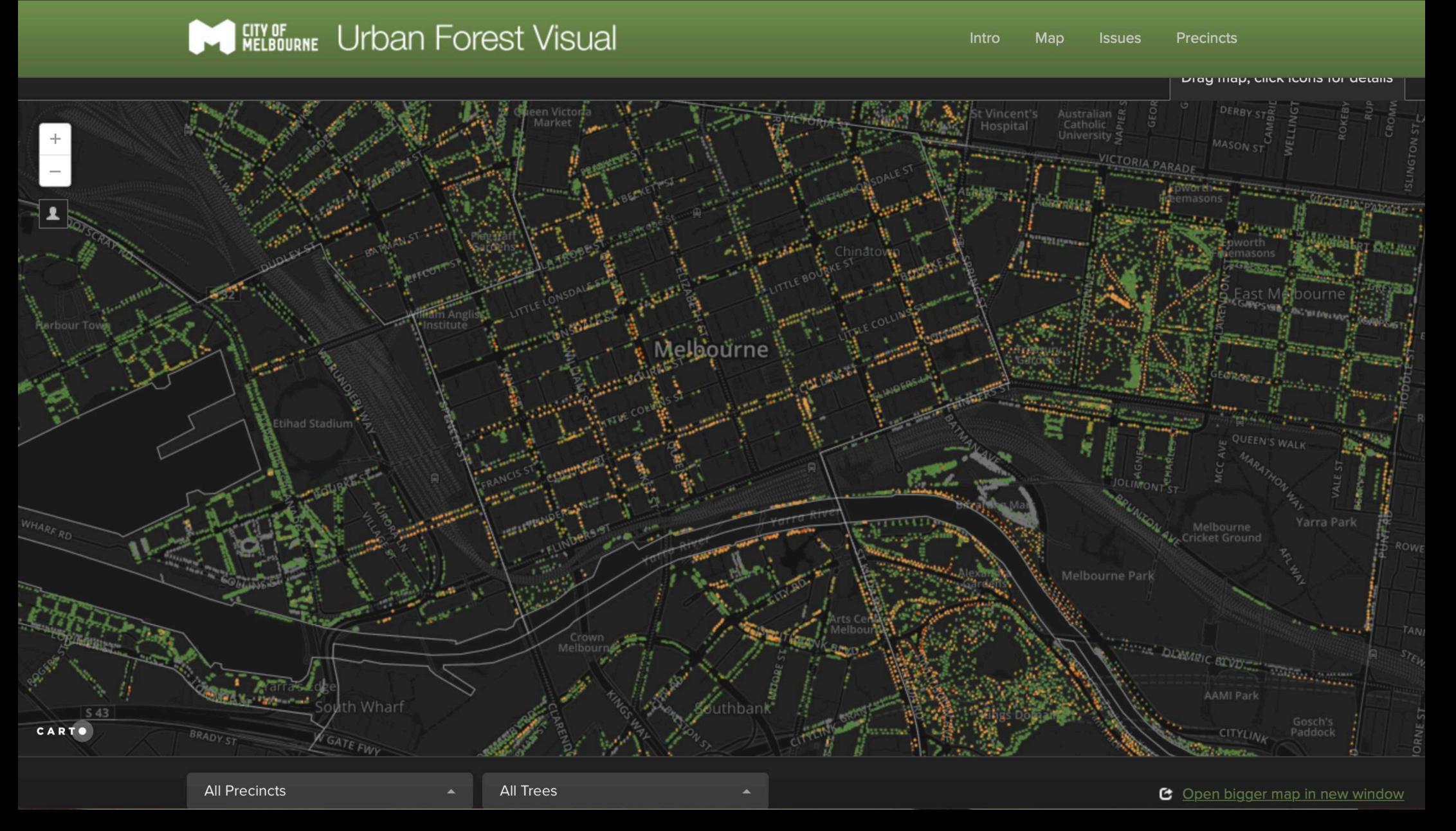


initial customer service UX

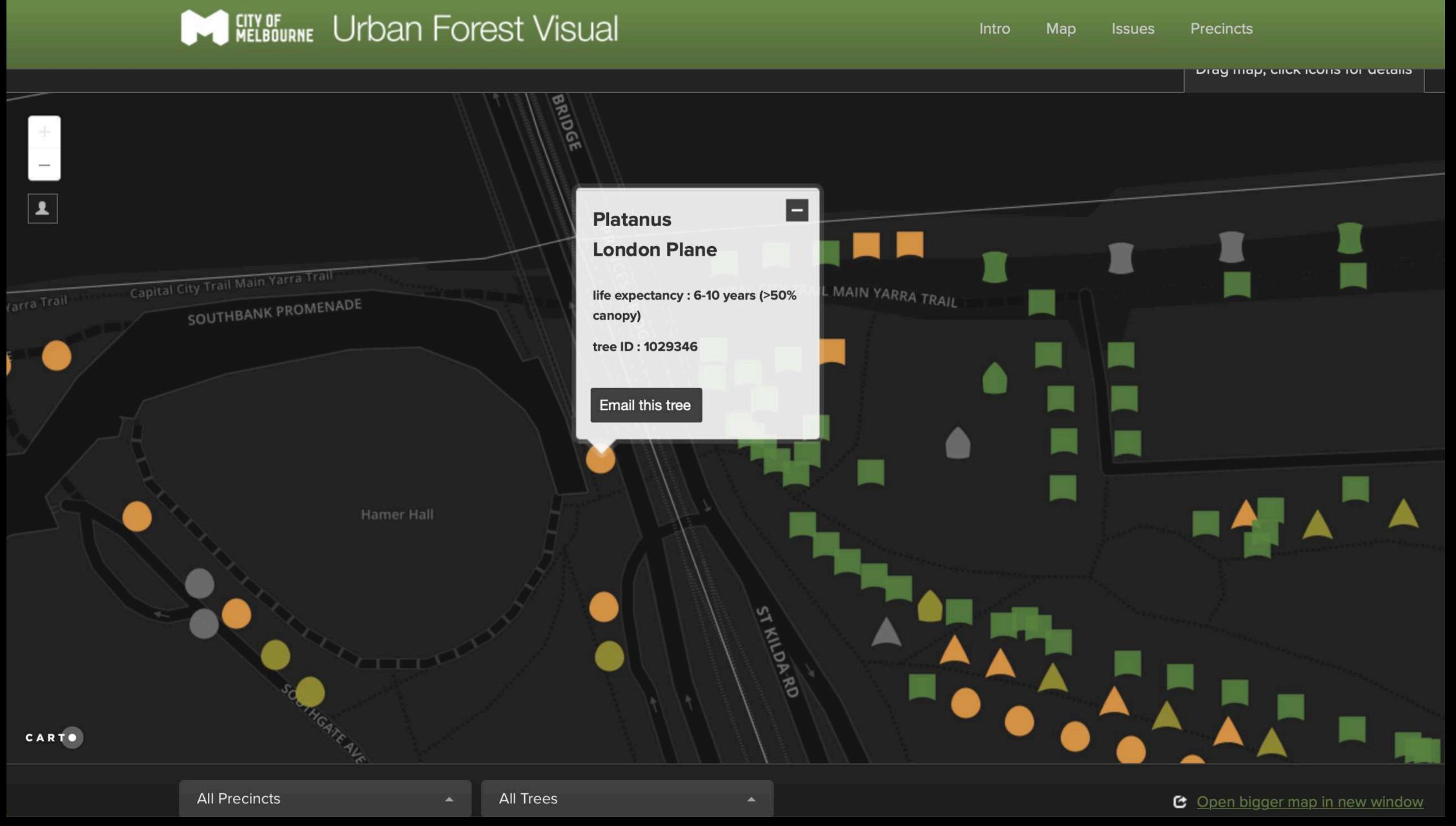
+ onboarding might be required every single time it has to be used

+ end to end service design for exhibitions institutions

- melbourne is a well connected and instrumented city



open data of Melbourne's trees



email a specific tree in Melbourne





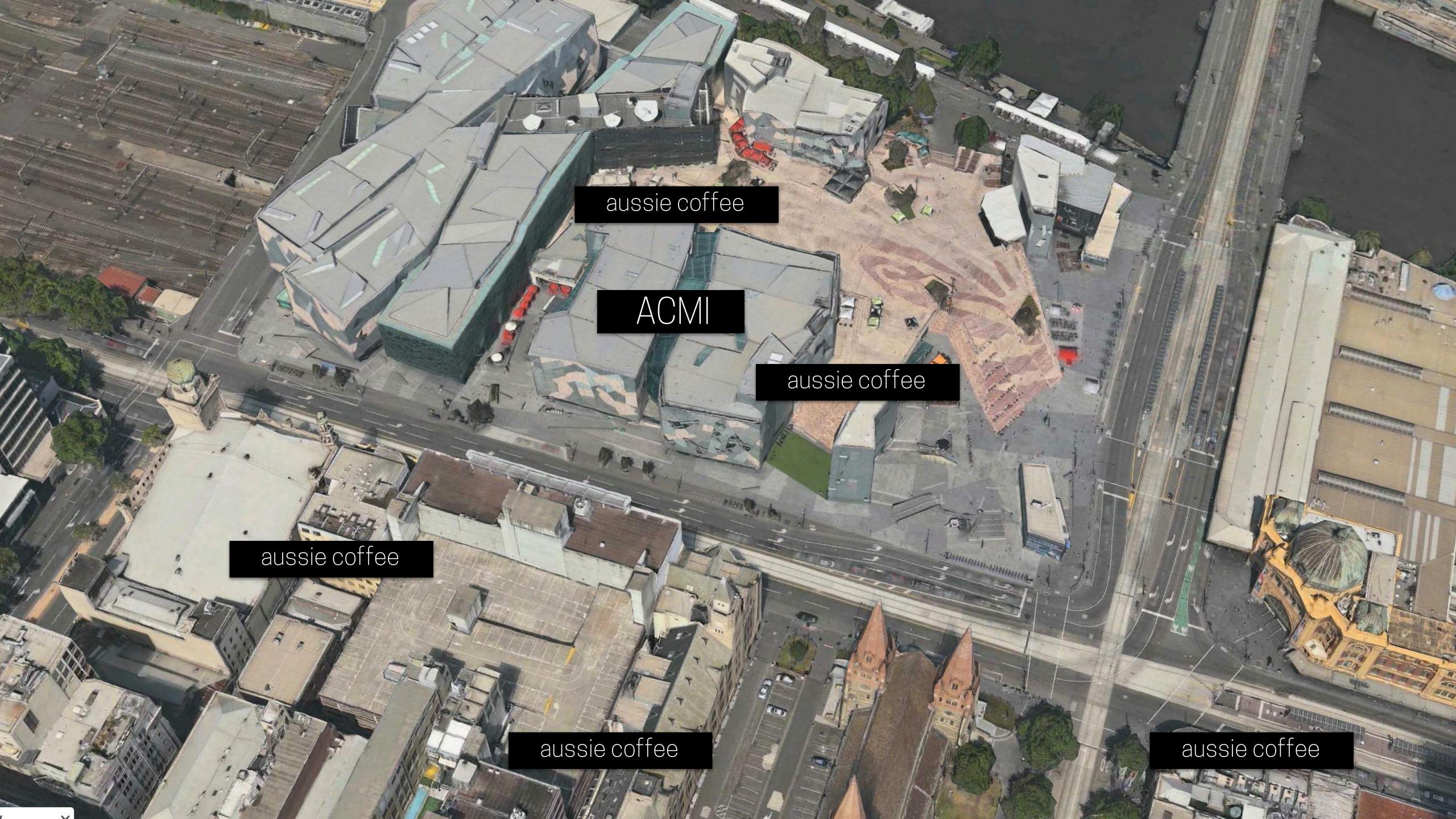
open 3D city model of Melbourne



screen record of Troy Innocent's Accelerando (2018)



ACM is the national museum of film, tv, video games, digital culture and art





500k 720k + visited our Our Audience visited our free touring exhibitions permanent exhibition last year 82k+ 1.55m students and teachers on site per year visitors 2017-18 60k + eDM subscribers 96% 44% visitor earn above median household income 25-40 satisfaction primary age demographic **1.7**m website views 2017-18 22% international

visitors







STUCKIN THEMIDDE WITHYOU

visitors as spectacle (2015)









new commissions daniel crooks, zany begg, soda_jerk, sandpit **soon**: christian thompson, joan ross







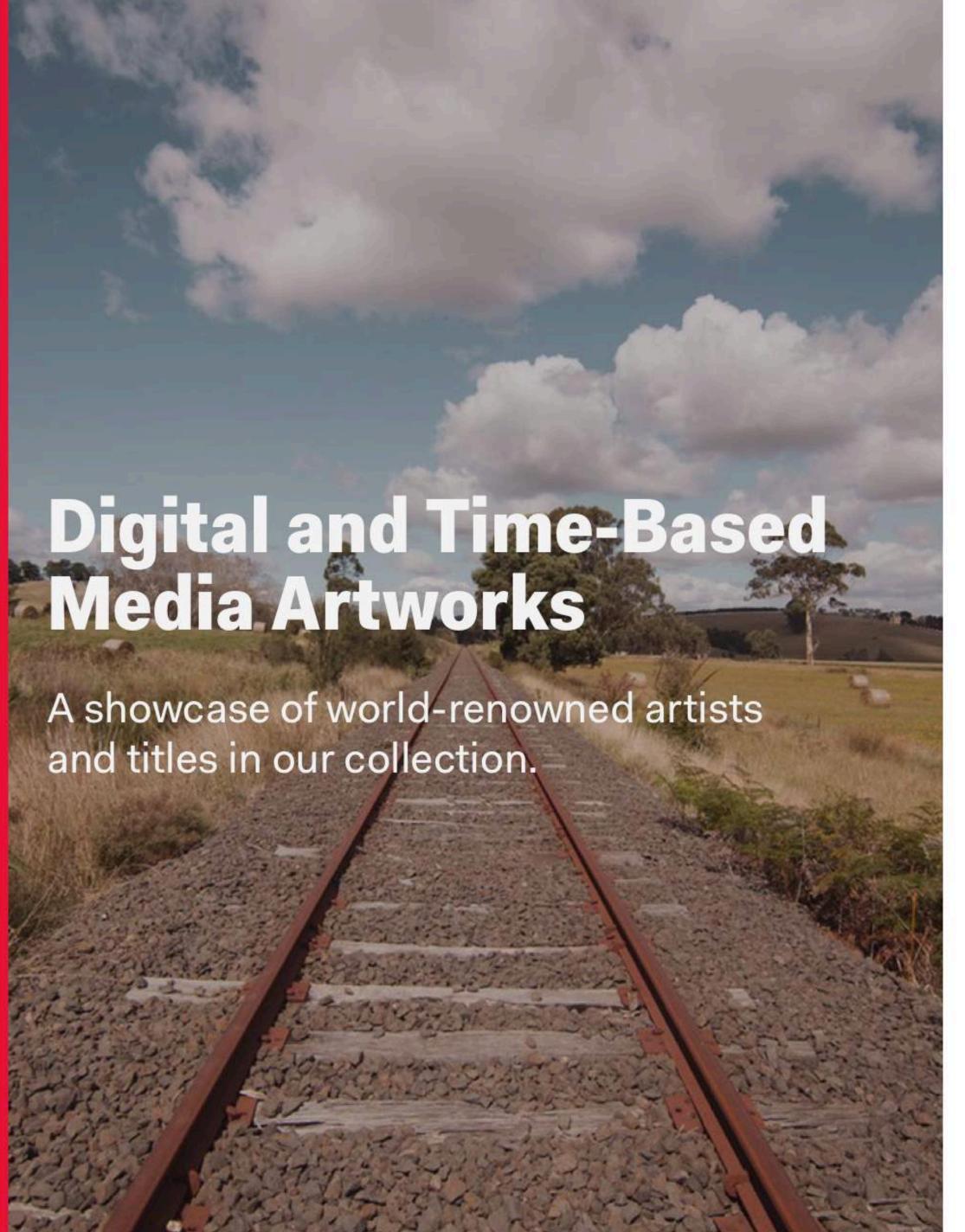
MUSEUM

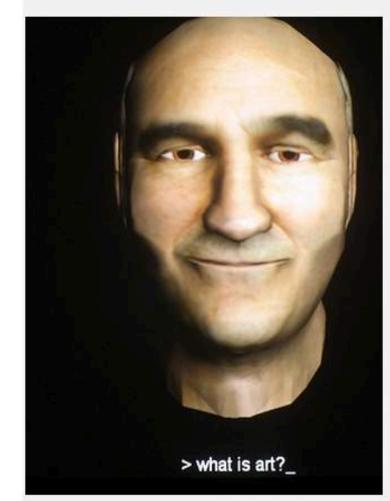
CINEMAS

IDEAS

acmi

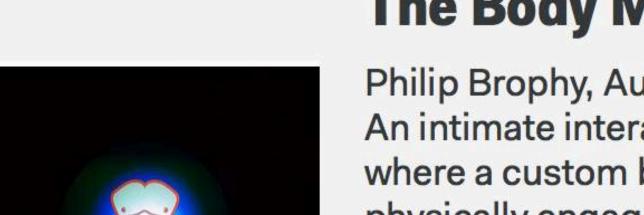
OPEN DAILY 10am Fed Square, Melbourne





Prosthetic Head

Stelarc, Australia, 2003.
Prosthetic Head, is a computer generated head that has realtime lip synching, speech synthesis, and facial expressions. Through a vision or sensor system, the Prosthetic Head will be able to acknowledge the presence and position of any physical body that approaches it and speak to the person who interrogates it.





The Body Malleable
Philip Brophy, Australia, 2003.

INTERACTIVE

An intimate interactive work where a custom built 'gromit' is physically engaged with by the viewer to create a display combining digital animation and synchronised audio in the installation space. The custom



digitising and preserving single channel works



our currency is time
 time to watch
 time to play
 time to experience

+ valuing the time that people give us and multiplying the return on that gift

+ new exhibitions used to pilot and test new approaches to design, technology, and visitor experience

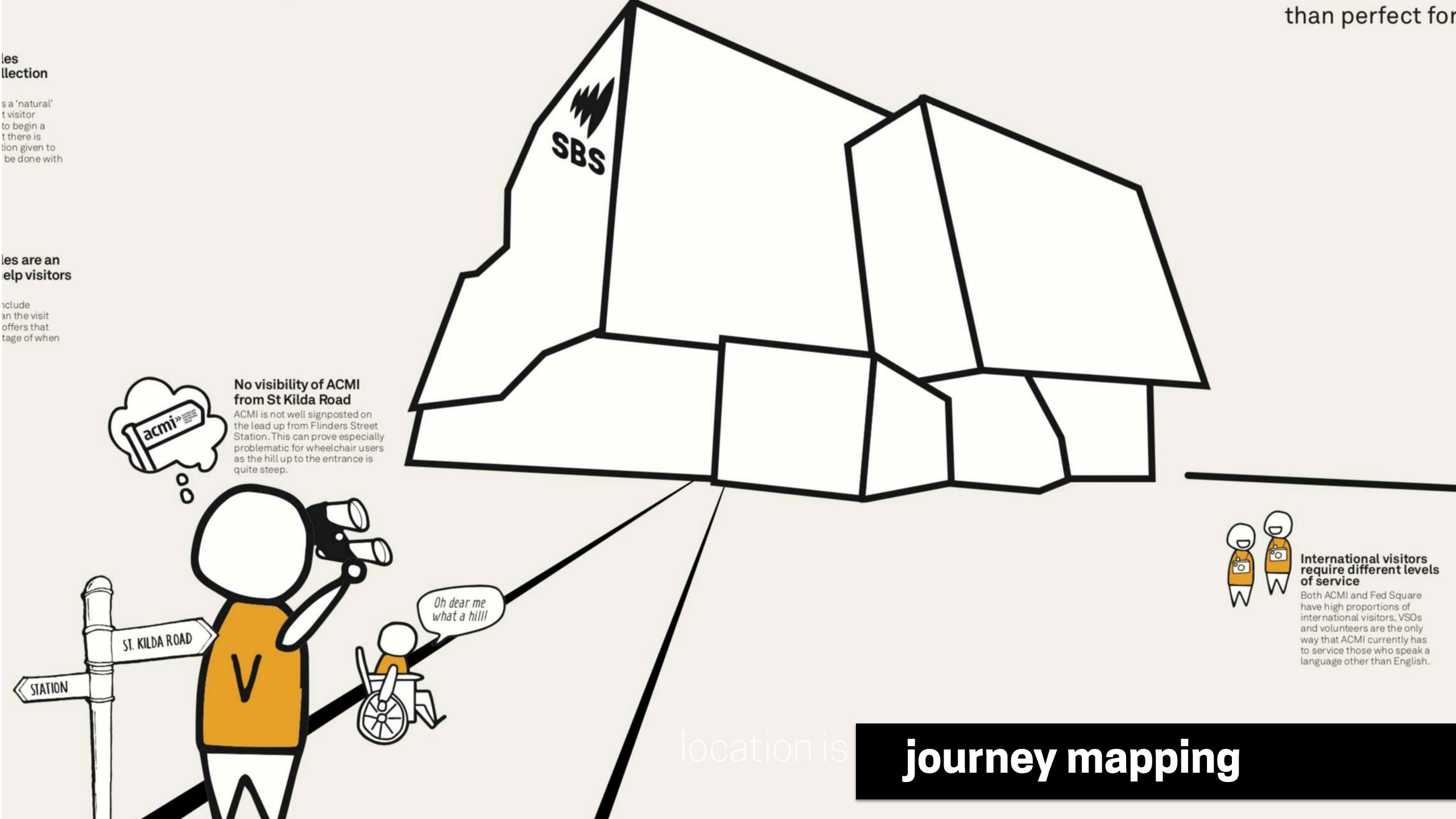
Visitors waiting using phones







observational research

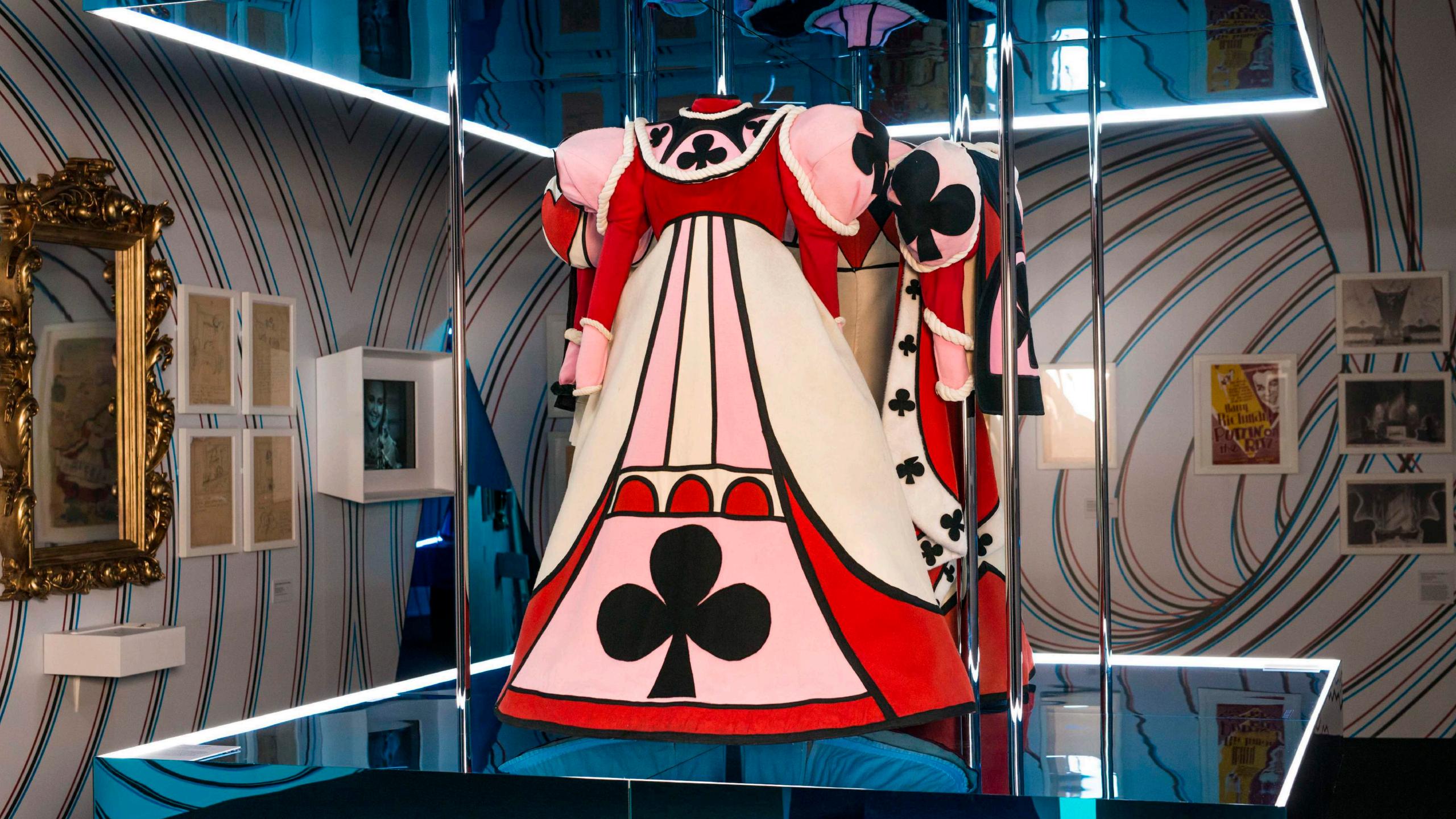


give tourist irrior mation, exhibit I tillucis downloads, welcoming services, and chevrons take phone calls to help customers Visitors g with online booking problems. Triangle' for a rece confused METCOWE TICKETS HERE DIRECTION TO .. SEMIDA TRIANGLA I'm confused. Am I meant to pay for this or not? TICKETS BEN MEMBER **Ticketing confusion** Members' welcome ACMI has both ticketed and non-A few times a year the head of ticketed offerings which appears membership will sit at the ticket can confuse some visitors who can't desk to meet members (they are







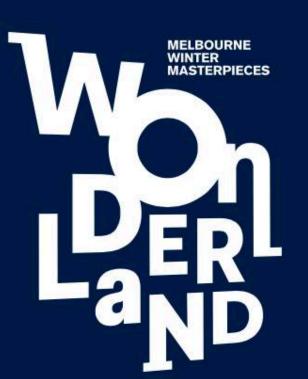












- Visitors

- Device Management
- Reports
- **B** Dashboard
- Collapse Menu











\$40m rebuilding project 2018-2020

ACMI is the national museum of "all the things you now can get access to in your pocket"

how might an institution be repurposed to focus on the 'connectivity between' prioritised over 'access to' objects & works?

equal parts
technology and
organisational and
cultural change

66

What forms of cultural memory don't fit on library shelves or city servers? Performative knowledge like dance, ritual, cooking, sports. Ambient data

Shannon Mattern, A City Is Not A Computer https://placesjournal.org/article/a-city-is-not-a-computer/

like shadows, wind, and rust. ""

thank you

@sebchan cxo/chief experience officer acmi.net.au | freshandnew.org