

London Office of Technology & Innovation and Sharing Cities

#IoTWeek

Wednesday Presentation



@LOTI_LDN @CitiesSharing

#IoTWeek



loti

What's happened so far



LOTI & GLA Team



MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

MAP

MAP a bit more &
SKETCH

DECIDE &
PROTOTYPE

PROTOTYPE
& TEST

PRESENT

Standup

Standup

Standup

Standup

Panels
(aka Expert
Interviews)

Find teams / topics

Prioritise Sketches to
Develop Further

Prototyping

Final final prep

Questions to “How
might we...?”

Further research
(Mapping)

Begin Prototyping

Test

Feedback and
Presentation

What do we know
already?

Sketch initial ideas

Begin final prep

Daily Show and Tell

Daily Show and Tell

Daily Show and Tell

Panel 1: How can boroughs make informed decisions about which IoT technologies can help deliver their desired outcomes?

Panel 2: How can we ensure IoT data delivers real insights that benefit the whole of London?

Panel 3: How can we deploy IoT technology in a way that engenders citizens' trust?

**We heard
from some
expert panels**



@LOTI_LDN @CitiesSharing

#IoTWeek





We reviewed a
list of
crowdsourced
questions and
identified what
was missing



@LOTI_LDN @CitiesSharing

#IoTWeek



**We turned
the questions
into “How
Might We...?”
statements**

HMW...



@LOTI_LDN @CitiesSharing

#IoTWeek





#IoTWeek

Campfire

- Pierre Venter** 10:34am
Hi everyone, looking forwar...
- Alex Gluhak** 10:34am
same here
- Eddie** 11:01am
Welcome everyone!
- Toby Hiles** 11:48am
Agreed...too important an o...
- Yohan Abrahams** 7:15pm
Really like this virtual style ...

Message Board

- Tuesday Research Group**
Chat and links 2
- Welcome to #IoTWeek!**
❤️ Heartbeat — Welcome to the

To-dos

- Organisers' to-dos**
- Creat slide deck for Wednesday
 Mar 3 Eddie Ed P.

Schedule

-
- Tue, Mar 3**
- Creat slide deck for Wednesday
Organisers' to-dos

Automatic Check-ins



Create recurring questions so you don't have to pester your team about what's going on.

Docs & Files

#IoTWeek Knowledgebas

Notes: This document is for capturing

#IoTWeek Useful Resources

Notes: A collection of

Daily Presentatio ns

...and 7 more

Tuesday Docs

...and 7 more

[Change tools \(add Email Forwards\)](#)



Outline <

CONTENTS

Monday Materials

- Conference slides
- "How might we?" statements and r...
- STRATEGY**
- TUESDAY - Exercise 2 - Research
- Specific IoT Standards
- Specific Open Source Foundati...
- BUYING INTO THE FUTURE
- Collaboration
- USE CASE & BUSINESS CASE
- Develop a reusable set of busines...
- Develop a single business case fo...
- Collaborate cross organisation
- Privacy in business case
- Market engagement
- Resources, best practice etc.

- solution for my Borough?
- Should I build my own IoT network or should I work with third parties?
 - Should I have a common IoT data platform or is there one shared one for all of London?
 - How will I share my data with other London Boroughs?

TUESDAY - Exercise 2 - Research

Framework

- **Guidelines and principles for IoT**
 - [NYC IoT Guidelines](#): provides a framework to help government and our partners responsibly deploy connected devices and IoT technologies in a coordinated and consistent manner. More than 35 cities, spanning 11 countries, have now joined New York City in this effort.
 - [GDS Digital Service Standard](#). A checklist for local authorities to follow on digital services. Some of this is directly relevant, some not. The format is useful and simple.
 - [EU CEF Digital Building Blocks](#). These building blocks are an interesting, but somewhat difficult to navigate, set of tools designed to support the EU Digital Single Market to succeed by promoting interoperability, primarily in data.
 - [Open and Agile Smart Cities](#). Open & Agile Smart Cities (OASC) is a non-profit, international smart city network that has established the Minimal Interoperability Mechanisms (MIMs) needed to create a smart city market. MIMs outline the minimum technical requirements needed for technology providers to interface their IoT solutions with local authorities' digital systems. Currently they include 3 established items (APIs for data access, data format, marketplace mechanisms) and two new items which are work in progress (personal data management, Fair AI)
 - [SynchroniCity](#): Large scale EU IoT pilot project involving 20 cities, which tried to create and pilot the foundations of a common environment for IoT enabled Smart City services. The project harmonised IoT data platforms across 20 cities by adopting OASC minimum interoperability

 **Rob Bullock**
11:04 Today Resolve

Top down leadership is critical for delivering strategy. Aligning change makers and senior management within the Boroughs to a joined up strategy will underpin adoption of the strategy and support joined up thinking

 **David Altabev**
11:07 Today Resolve

If we go into procurement and legal, worth chatting to Bird & Bird public sector legal team



Plan for today



LOTI & GLA Team



Agenda

- 09:45** Standup
- 10:00** What's happened so far
- 10:15** Speed Critique
- 11:00** QUICK BREAK
- 11:10** Speed Critique cont., Assimilate and Voting
- 12:00** LUNCH AND CHANGE VENUE
- 13:00** Form Teams and Start Prototyping!
- 15:15** Show and Tell
- 15:30** End



@LOTI_LDN @CitiesSharing

#IoTWeek



To think about whilst prototyping and for Friday presentation

- **What is the PROBLEM you're solving?**
 - Which “How might we...?” question inspired this idea?
- **Who is the target USER?**
 - General public? LA Officer? Member? GLA / LOTI? SME?
 - What user need are you targeting?
- **What is the SOLUTION?**
 - Product? Service? Process? Guidance?
- **How does it WORK?**
 - Are you developing a high-level design for a solution or a process to get to a solution?
 - What is the MINIMUM VIABLE PRODUCT (MVP) you can create now?
- **WHO is involved in the solution?**
 - Who is developing the solution? Who funds the solution?
- **How will this idea be SUSTAINED after the sprint?**
 - What can we develop now (Wednesday / Thursday) which will make it more likely that the solution will be developed further?
- **What are you PRESENTING on Friday?**

3 mins per sketch

As a group, discuss the highlights of each solution.

Capture standout ideas and important objections.

At the end, ask the sketcher if the group missed anything.

Exercise 1:

Speed Critique



@LOTI_LDN @CitiesSharing

#IoTWeek



HMW develop an IoT Service Standard for London?



@LOTI_LDN @CitiesSharing

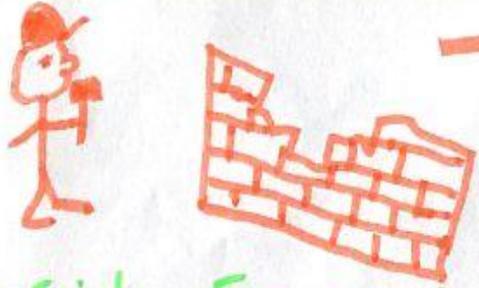
#IoTWeek



DECONSTRUCT

BUILD

TEST



- Existing Frameworks
- User needs
- Mapping
- Propose structure



- Wireframe
- Populate
- Test
- Simplify + refine



- TEST on a live case
- Share + engage
- Finalise
- Publish
- GLA/LOTS Mgmt.

LONDON IOT SERVICE STANDARD

Highlights / standout ideas

- Logical thing to do - learn from what's been done
- Deconstruct stage is really important - looking at existing frameworks
- Realistic timescales - suggested headings in wireframes and move into development following #IoTWeek

Important objections

How enforced will it be? How do we segment it for different groups?

Open to all? Is there a danger that we are fulfilling too many diverse needs?

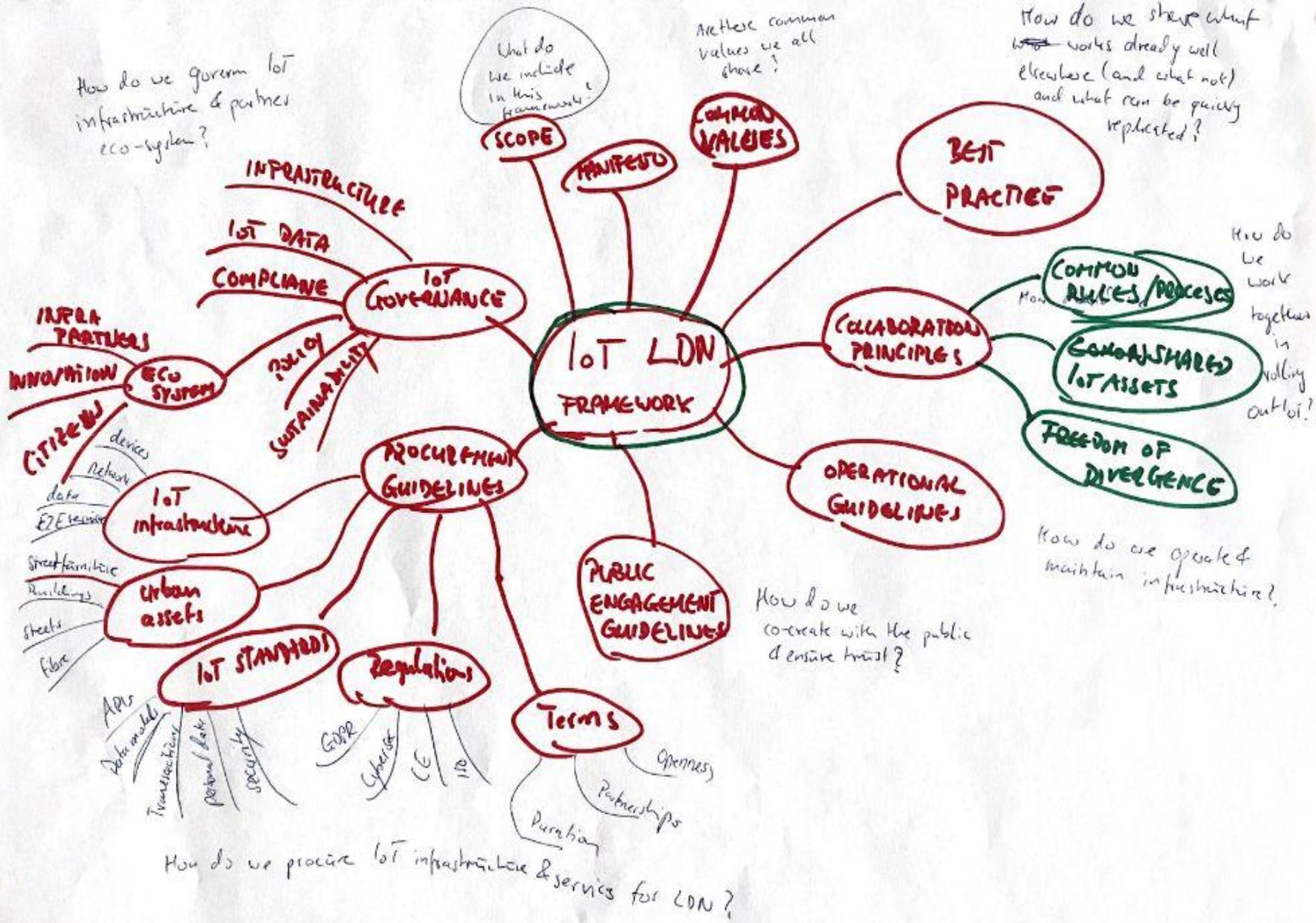
Similar to GDS service standard and New York example

By Friday

Create Wireframe

VOTES - 12

NP
OO
NM
SNA
AG
GH
MP
ETP
RO
CM
MGJ
RM



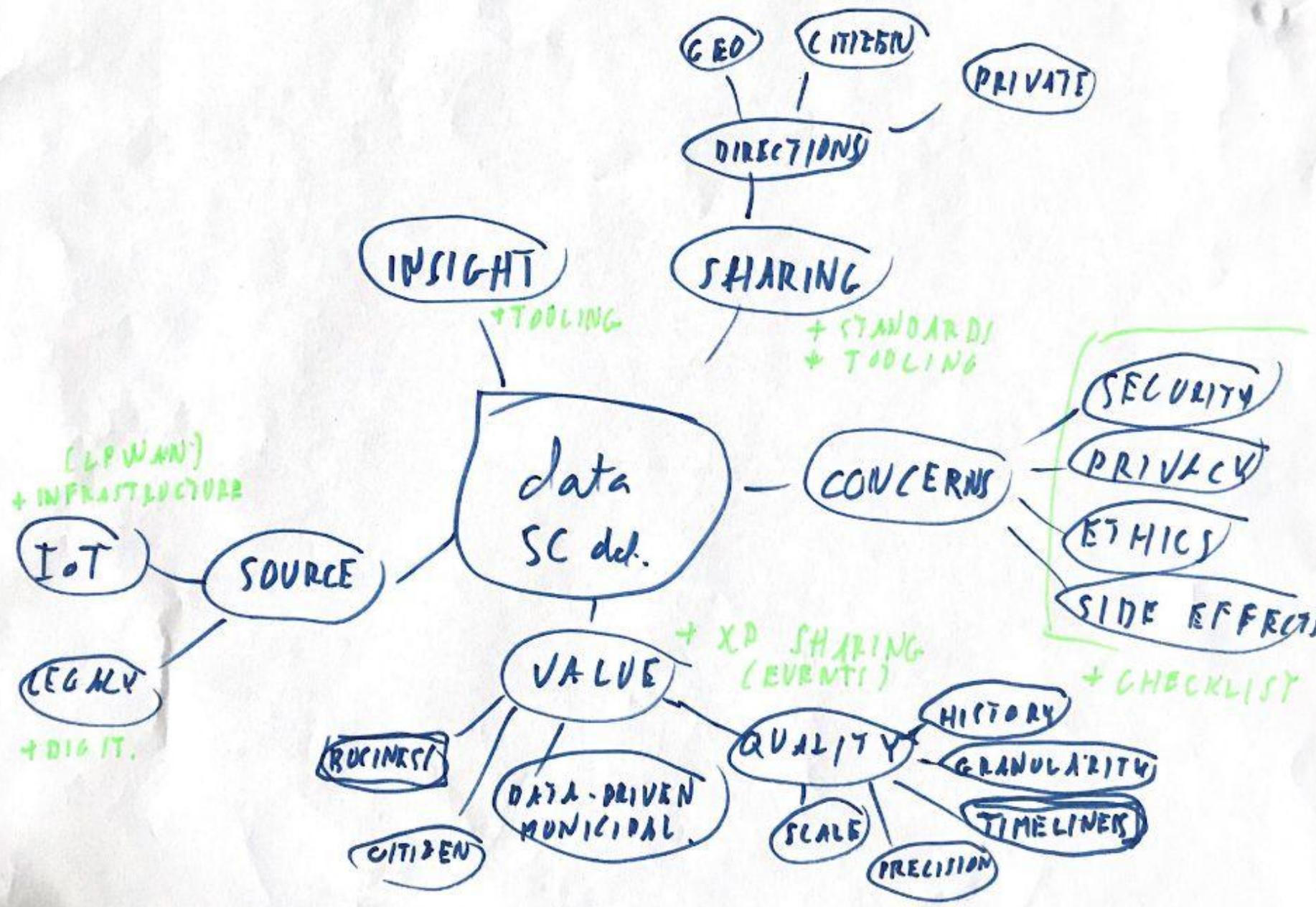
Highlights / standout ideas
 IoT London framework that sits alongside boroughs' strategies. Public engagement guidelines - common [London] voice to citizens. What are the right questions to ask that build up a process later on.

Important objections
 Are we doing too much to get buy in and stakeholder engagement? Segmenting for different? A lot of resources? How do we customise for different boroughs? Risk of frameworks might rely scare small boroughs (step-by-step guide - change the language used so less daunting)

Similar to
 overlaps with other ideas (Nathan's) because it encompasses procurement, public engagement etc. re-purpose GDS packable tool.

- VOTES 4
- NM
- AG
- CK
- AP

How do we procure IoT infrastructure & services for LDN?



Highlights / standout ideas
 Target: guidelines for municipalities;
 Structure for a standard from a data viewpoint;
 process/procedure, although its not immediately adaptable for LAs

Important objections
 -are there too many standards? (this is not standard, it is structured guidelines)
 - This is just a single view; Data process? (indeed, complementary to other views)
 - Does it meet the needs of different segments?

Similar to
 Process type of document
 not data standard

VOTES (1) :-)
CK

An IoT Toolkit (for non-techies):

Concept

- Consider corporate strategies
- establish outcomes based on user needs

Delivery

- think about / define a specific use case
- develop business case

ENGAGE the PUBLIC

- ~~engage public~~
- Procurement & suppliers
- Deployment & relationship with suppliers

What next

- analysis & insights from data
- what's the change / benefits
- So, what

Communication

- with the public
- with internal colleagues, members,
- with partners, suppliers etc.

Highways officer as user. People who don't know about IoT but are working on procurements. End to end framework for them.

Highlights / standout ideas

- Provide end-to-end thinking/framework
- Not a literacy tool but more of a step by step guide - to prompt to aid thinking about IoT
- Good starting point for Highways Officer

Important objections

Does it meet the needs of different groups outside of Highway Officers?

Are we just replicated another toolkit?

Too similar to other tools?

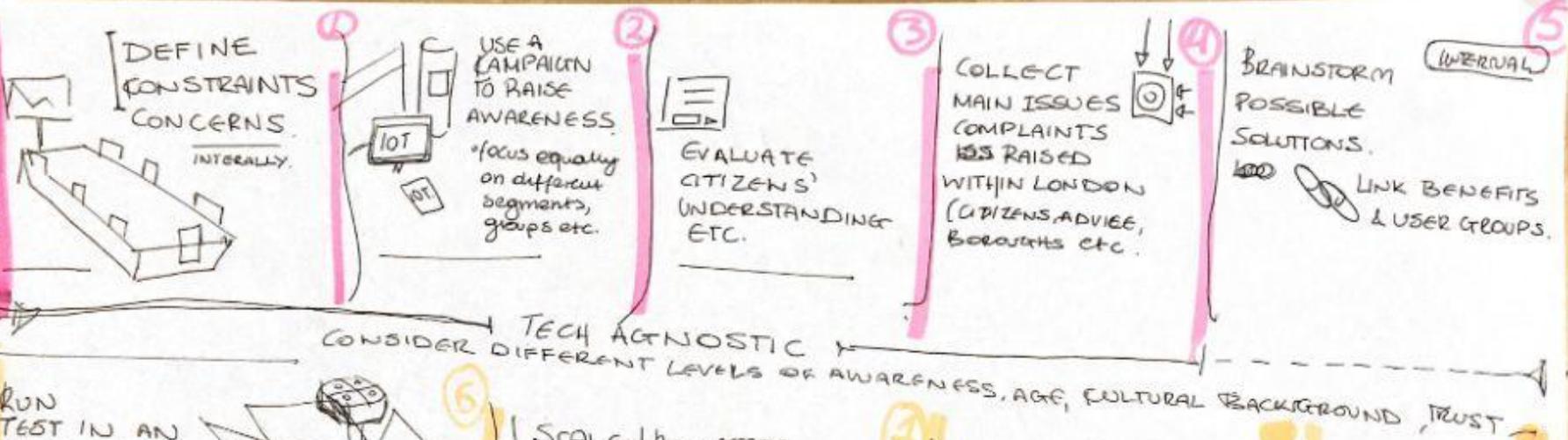
Is there enough depth in this idea on what is really needed?

Similar to

[CoL Digital Infrastructure Toolkit](#)

VOTES

IDEA EXPLORE & IDEATE



TECH AGNOSTIC
CONSIDER DIFFERANT LEVELS OF AWARENESS, AGE, CULTURAL BACKGROUND, TRUST

DEVELOP



MAKE SURE IS FUTURE PROOF
CITIZENS' FIRST

- INCREASE ENGAGEMENT.
- SEND NOTIFICATIONS.

Highlights / standout ideas
Design-led and user-centred, less crowdsource-y - to promote active usage.

Important objections
Not enough evidence of User Cases and business benefits
This is more design led than crowd source, do we need that?
Do we already have this?

Similar to
number 6 (user centred approach)
Barcelona Toolkit
VOTES (1)
NP

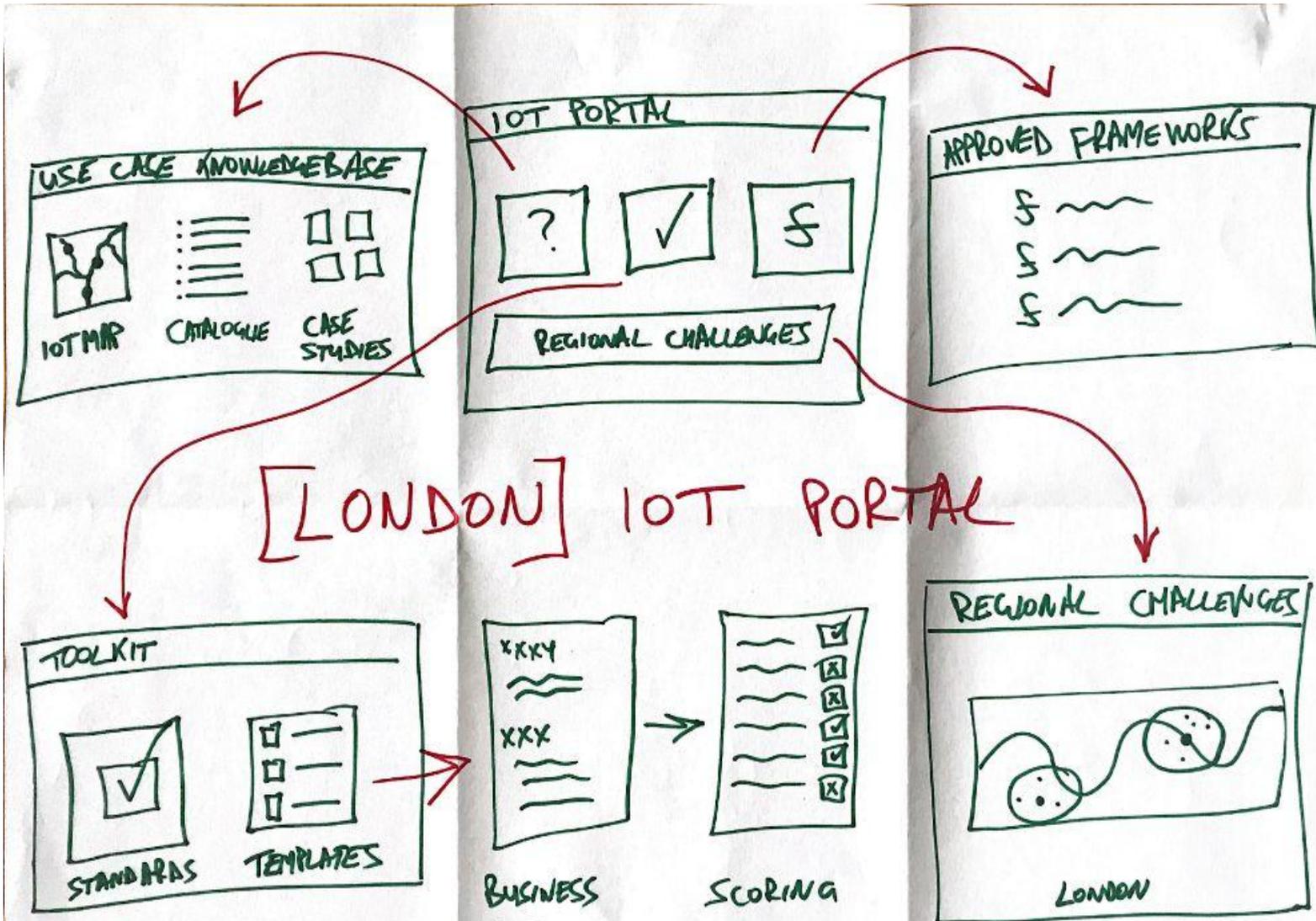
HMW create a collaborative approach to IoT in London?



@LOTI_LDN @CitiesSharing

#IoTWeek





Highlights / standout ideas

Portal used to facilitate collaboration knowledge sharing. Allows posting of docs and resources by teams, catalogues, frameworks, etc to understand what different regions needs are.

Singular view of use cases from other LAs. Could absorb all other ideas.

Important objections

Is it practical? Who will own and fund it?

Does not already exist .govt?

We already have shared Cities framework?

It feels a bit too broad? London Data Store 3.0 Zero?

Similar to

[Connected London Digital Portal](#)

(Local gov portal)

Friday

Sharing cities packaging

VOTES (13)

NP
AFC
RO
PMCD
PMCD
PMCD
SNA
ST
RM
AMC
DLR
CK
AP

Smart LDW Collaboration Protocol

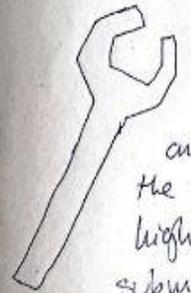
IDEO

1060 colab
collaborative cities
division

Host Challenge on
openideo or similar,
and open it up to
submissions.

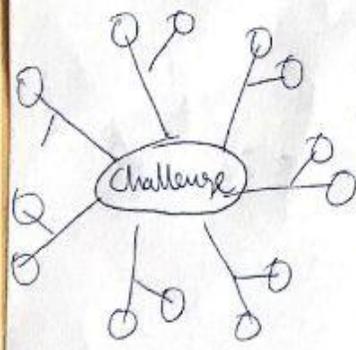
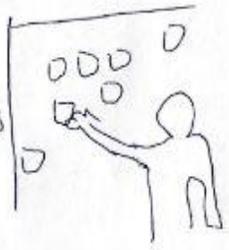


Pick a pain-London
challenge (ex.
Air Quality) and
write a detailed
brief of the
issue and broad
desired outcome e.g cleaner air!



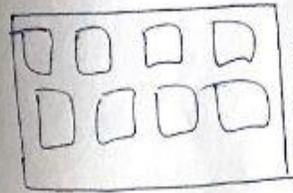
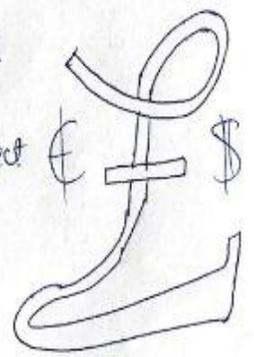
Encourage team submissions
and ensure everybody follows
the proposal format to ensure
high quality & to enable
submissions to be compared and
even combined.

With IDEO, follow the
DT process and the insights
from submissions to
generate solutions
to solve the challenge.



- Outreach to:
 - all boroughs
 - service delivery & insights/sharing
 - central gov (policy)
 - NGOs, Charities, Soc.
 - big tech, SMEs Startups
 - Academia, Research
 - Citizens

Incentivize good work
with cash prizes and
chance to bring their project
to life in London



Showcase all submission
as inspiration to other
contributors.

Smart London Present proposition
to the Smart LDW
Board for final sign-off
and then implement city-wide.



Showcase the success & the
journey at Smart LDW
the Collaborative Forum adding
pace & precision to London's
transformation 😊

Process / protocol for ideating
solutions

Highlights / standout ideas

Crowdsourcing solutions and focusing
on ideation. Process to bring diverse
ecosystem together to discuss
solutions to complex problems LAs
want to solve.

Helps boroughs work together more
as they have unique needs and need
to work across boundaries.

Important objections

- Could it be too broad?
- Is it too expensive working with IDIO?
(They are v.expensive)
- Challenge is sharing the data?
- Who owns the ideas if we
crowdsourcing the ideas?

Similar to

Europe and Vienna have done similar
Nesta challenge
the procurement ideas

VOTES 0

HMW develop and maintain a catalogue of use cases and user stories



@LOTI_LDN @CitiesSharing

#IoTWeek



Run social + anti social media campaign

£10k in 5 wards

Citizens participate to "make"

10 use cases

Citizens

choose

2 use cases

Implement
↑ use cases

citizens + stakeholders
↑ + council

The Magnificat Server meet King of Lego

Templates Resulting

① Use Case List

② Use case template

- a - what + why
- b - trust aspects
- c - data aspects
- d - citizen ownership
- e - out come inc. costs + benefits

Templates for a-e (more detail)

eg c Data Template for:
Data interoperability
Data value, ownership,
Joining up, standardisation
sensitivity, protection

Air Quality - top citizen concern

- ① what Measure air quality + notify aesthetics drive - via social media public health, climate ev take up liveability
- ② why
- ③ trust develop through citizen "made" approach throughout
- ④ data conform to DEFRA standard
- ⑤ citizen continue citizen ownership throughout
- ⑥ device = sensor network = abiot = analytics engine

Highlights / standout ideas

One page document that summarises use cases (easy to understand what the idea is to ANYONE and lists costs associated).

European funding is available to replicate/use the resources (e.g. templates) created by Sharing Cities.

Important objections

Not enough depth and detail about HOW IOT will help recipients

Sharing Cities already have templates, is it offering unique value?

User Cases are great but we need a second part which shows the evidence or classifies the User Cases

Similar to

Sharing cities templates exist - one pagers

VOTES
NM

HMW develop a reusable set of business case templates



@LOTI_LDN @CitiesSharing

#IoTWeek



SMART CITY COLLABORATIVE PROCUREMENT FRAMEWORK

1) DEFINE USER GOALS

- SAVE ENERGY
- INCREASE PEDESTRIAN SAFETY
- SAFER STREETS, SMART BINS, SMART DRAINS, etc
- OTHER

2) PROCURE / SOLICIT FROM MARKET

- INCREASE BOROUGH MARKET KNOWLEDGE
- GET "HANDS-ON" / SHOW ACTION
- SETUP PILOTS

3) INSTALL, TRIAL AND TEST PERIOD

- Monitor / Track Deployment
- USER EXPERIENCE; COLLECT DATA

4) EVALUATE and PROVIDE FEEDBACK

- USER ↔ VENDOR
- INTRA-Borough Collaboration Group
- INTER-Borough Collaboration Group

5) ROLL-OUT / SCALE-UP

- LARGER DEPLOYMENT BASE
- OTHER BOROUGH PARTICIPATION
- ENABLE OTHER (UNEXPECTED) USE CASES

RE-Focus with LESSONS LEARNED OR NEW Borough Project (Piggy-back)

Highlights / standout ideas

Procurement framework (process map) - engine to take on use cases that generates content to move to trials and projects. Highlight what works/doesn't work. Aligns with boroughs' strategies. Can be applied to any area of boroughs' infrastructure e.g. lighting etc. Move boroughs on from perpetual pilot fatigue.

Important objections

Maybe could be too general
This is a process map but is enough to get buy in from stakeholders?
Too general and hence too costly to maintain?

Need to collaborate

Similar to

to Paul's and Pierre's ideas

VOTES 6

DLR

PV

AFC

MP

AMC

AP

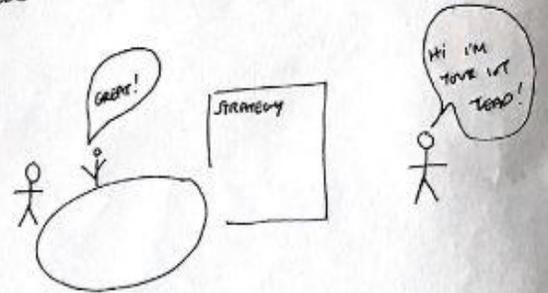
LONDON IoT COLLABORATIVE

1 IN THE BEGINNING

A LOCAL AUTHORITY IS UPDATING ITS SOCIAL CARE STRATEGY...



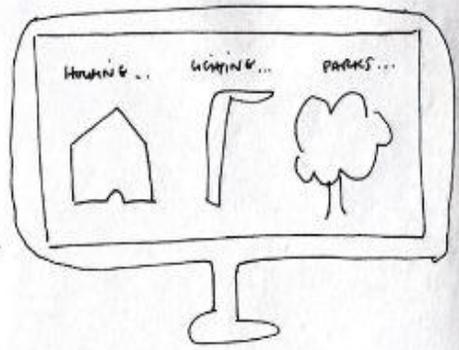
... THEY BRING IN THEIR LA LEAD ON IoT WHO MEETS WITH THEM TO TALK ABOUT THEIR NEEDS



BUT WE DON'T UNDERSTAND IoT
 WHAT ARE THE BENEFITS?

THE IoT LEAD WORKS WITH THE TEAM + GOES THROUGH GOING RESEARCHS DEVELOPED ACROSS COUNTR

2 AND SO...
 THEY GO THROUGH THE USE CASE BROWSER WHICH LINKS USE CASES TO BENEFITS



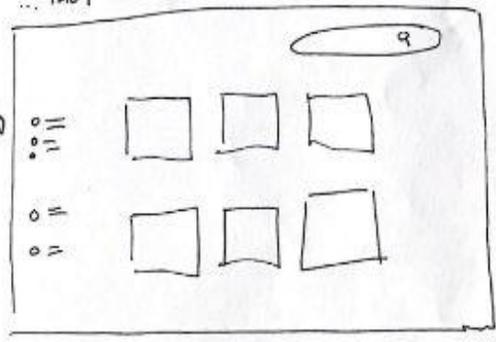
(ALSO THEY ENGAGE WITH CENTRAL IoT TEAM + OTHER LAs WHO HAVE UNDERTAKEN WORK...)

THIS PRODUCES A TEMPLATE FOR THE TYPES OF BENEFIT THEY CAN EXPECT IN SOCIAL CARE...

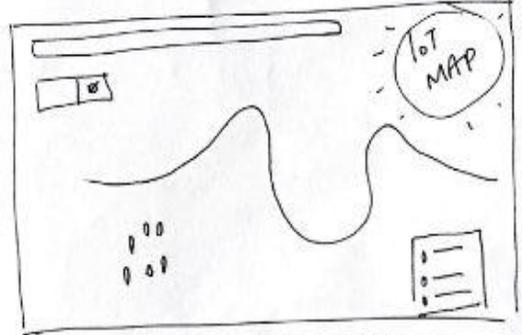


AN ITERATIVE

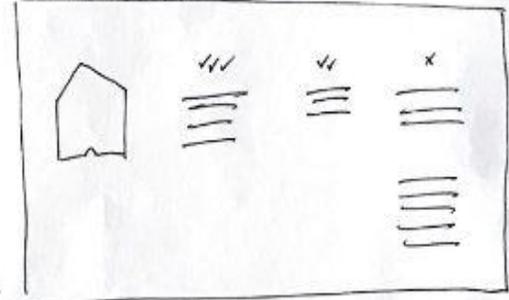
3 THE PROCESS IS TRACKED ONLINE PLATFORM...
 ... THEY CAN PRODUCE + ENGAGE SUPPLIERS



... ALL OF THE INSTANTATIONS ARE TRANSPARENT TO THE PUBLIC



... IMPACTS FEEDBACK INTO ON-GOING BUSINESS CASES



Highlights / standout ideas

Online platform - simplistic explanation tailored to each role/user that automatically maps on relevant use cases. Easily searchable information.

Users - boroughs and GLA

Important objections

Who is the target? Is it too general? Can it be adapted to different groups?

How do we keep it up to date?

Its a big idea? Do have enough resources to deliver competently?

Similar to Genta's idea

VOTES 0

**HMW share / join up IoT data
amongst boroughs (and
between teams within one
borough)**



[@LOTI_LDN](#) [@CitiesSharing](#)

[#IoTWeek](#)

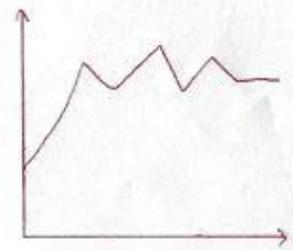
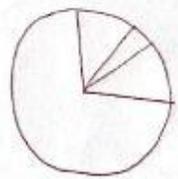


LOTI London DataShare Portal -IOT

Login / Logout

Analytics

USE-CASE



Import

USE-CASE

SCHEMA

DB Query MySQL / Post GreSQL....

XLS

CSV

Null Value Check

Duplicate Check

Data upload

Schema Check

Export

USE-CASE

TIME START

TIME FINISH

File name:

Download CSV XLS

Schema Database

USE-CASE

NEW USE-CASE: upload_schema_for_approval

Download Schema Browse

NGSI-LD certified: Yes/No

BSI certified: Yes/No

IEEE Certified: Yes/No

Format: JSON / XML /

Meta-Data Searcher

Search key word: Carbon Monoxide

10 Hits:

DB_BLAH1 - USECASEBLAH [Link](#)

DB_BLAH2 - USECASEBLAH3 [Link](#)

.....

.....

.....

Storage Management

~~Details~~

Archive Data older than 10 years:

Highlights / standout ideas

Analytics page with import and export functionality (that meets BSI standards)

Intended user: any borough officers

Schemas/databases developed are guided by use cases

Important objections

Analytics dashboards might scare off small boroughs? Might it make IOT put complexity at the front

Who's using? Might be too complex for non-technical people across Boroughs?

Similar to London Datastore but with BSI standards (and other data standards) imposed Kingston and Sutton might be doing this anyway as part of their project

Several similar portals in transport space, e.g.

oneTRANSPORT, ConVEx project

VOTES: 2

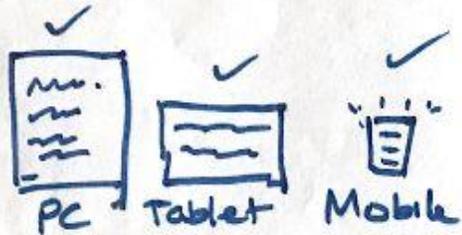
PV

CDOP

The Sharing Utopia IoT Device ~~Sharing Across Boroughs~~ Sharing Across Boroughs

Accessible

1) Multi Device



2) API ✓



3) Distribution

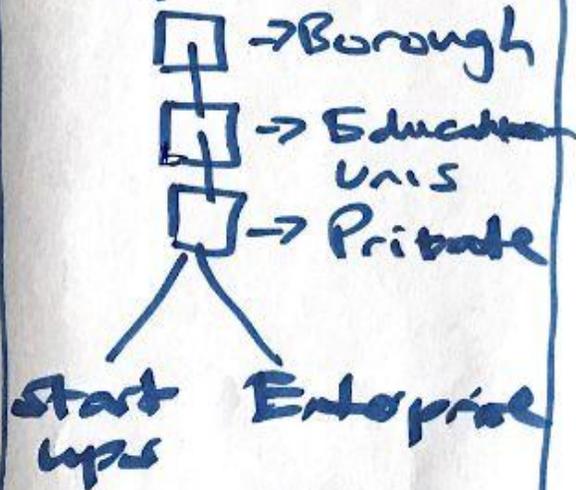


Data

1) Visualisation



2) Hierarchy of permission

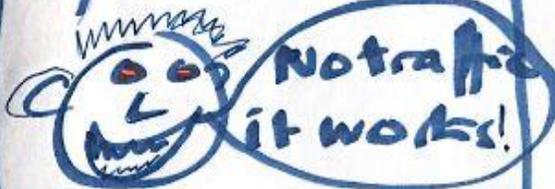


Purpose

1) Money saved

£ £ £ ✓

2) User Cases



3) Continually updating/adding new ideas



Highlights / standout ideas

Platform: Multi-device, open API (maximise sharing among boroughs) and simple (not intimidating for staff who don't know what IoT is/how to use IoT). Hierarchy of permissions. Putting purpose at the centre of the user experience. Could help to stimulate the market - what are boroughs interested in? Taking onboard real, live data - API at the centre.

Important objections

Schema?
Can it be segmented?
Resources needed for a live beta portal

Similar to

Pierre's idea
London Datastore 3.0

VOTES-1
DLR

London City Data Store

Sharing Data for the public good

Environment

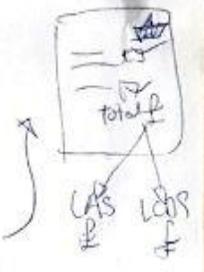
Transport

Safety

Housing

Health

Jobs + Economy



Back to 'all data'
Private orgs can access published API feeds for a price



IoT/real time Environment Data

- Examples / Case Studies
- Requires-sets standards for data
- On-going on board proj. in his area.
- Add a real-time/IOT data source
- Back to all Environment Data.
- Explore high level metrics + viz. of the data

① Examples / case studies.

- ? Build up / point to elsewhere or already established areas e.g. pipeline / slack census.
- ? Just IOT or part of wider 'data' projects.
- ? Curated / templated

② Data Requirements - ~~What~~ What your data needs to look like to contribute to the community

- * Meta Data
 - ownership, what is it, accessibility, IEAs + privacy, security.
- * An API feed
 - tech details, link+key, data, storage
 - specific to:
 - enviro → energy
 - → water
 - → parks.

④ Explore the data.

Build your own viz / explore the data.

Graph Map Table

⑤ Choose Data ⑥ Download

③ Contribute / add a data source.

Have you checked req?

- category / area
- org / affiliation
- meta data
- accessibility + sharing agreements
- API details

Highlights / standout ideas

Embed IoT into LDS 3.0 redesign - API that allows councils to share data collaboratively.

Visually convey the data that brings meaning to boroughs.

Important objections

Shared API on Github- are we replicating

We need to sell the idea coherently
Is there enough depth?

Are we replicating what we are already doing

Similar to

Datastore redesign that's already funded to be replicated.

VOTES- Zero

HMW better understand the value of IoT data



@LOTI_LDN @CitiesSharing

#IoTWeek



HMW raise awareness and educate the public about IoT data collection and how it's used



[@LOTI_LDN](#) [@CitiesSharing](#)

[#IoTWeek](#)

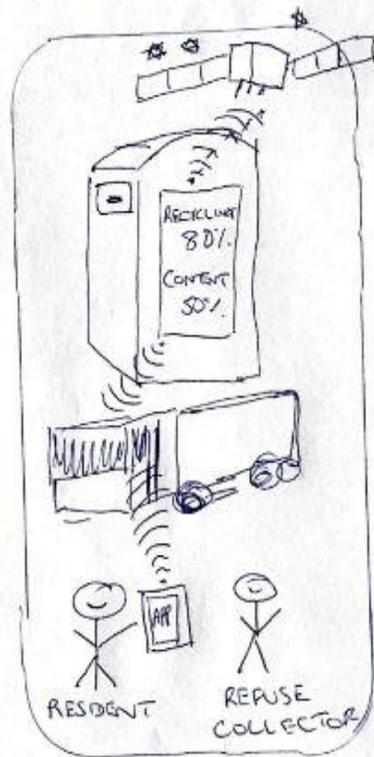


RECYCLE IoT

REUSE
REPAIR



BEFORE



'IoT'



AFTER

Highlights / standout ideas

Real-life tangible use case
(Councils' recycling)
Stimulate boroughs' thinking -
installation of IoT devices
Links with smart street
infrastructure - need for
standardisation across London

Mark: Real-life Problem for UK,
London, Boroughs and residents.
Limited, or no standard use of IoT
but huge scope

Important objections

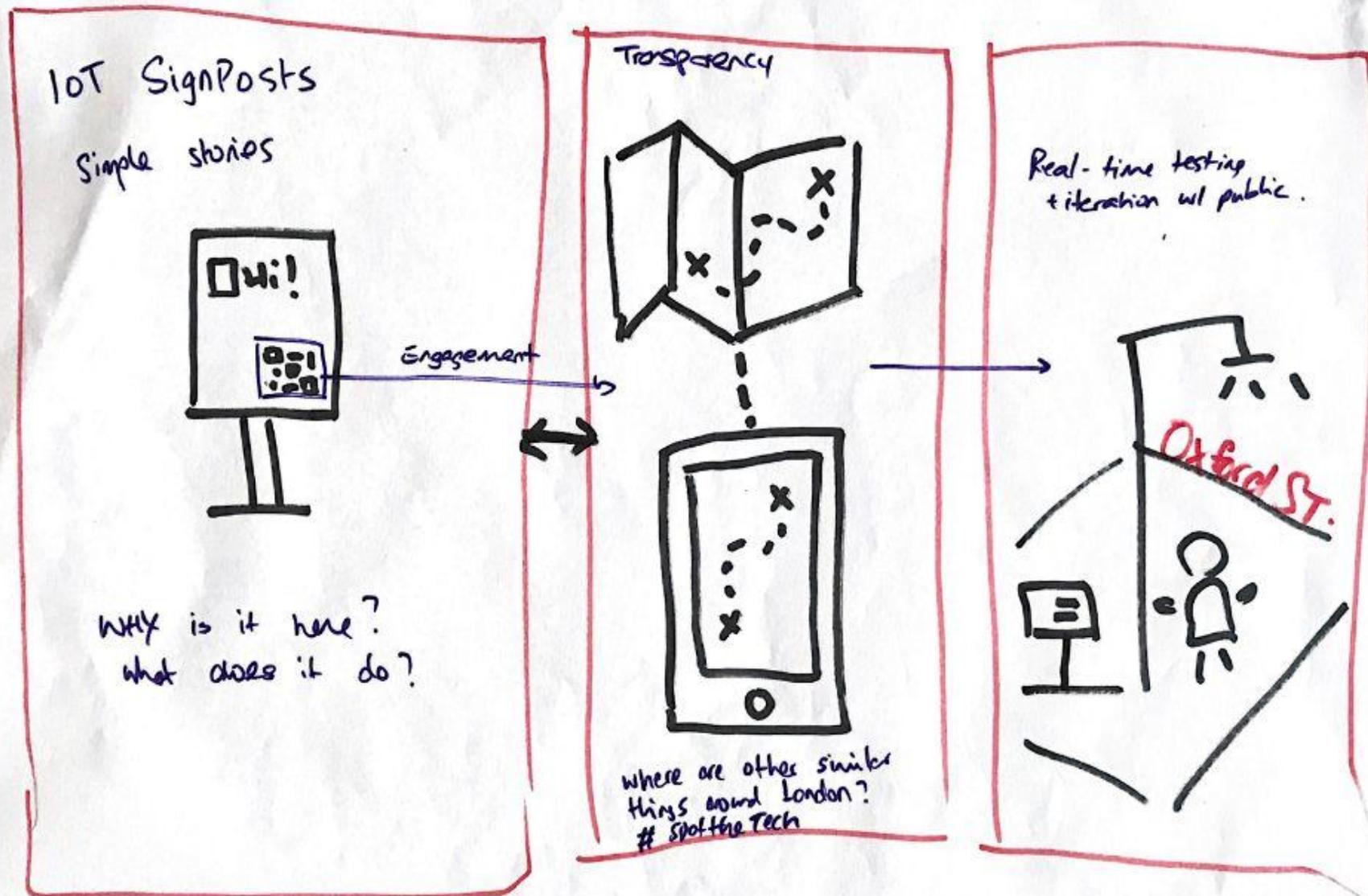
Is this not too orientated towards
waste? What about different
challenges across other Boroughs?
Is there enough sharing and
standardisation in this idea

Similar to

Outcomes derived from Greenwich
consultation
The IoT service Standard idea
(Nathan's)

VOTES - 3
MGJ x2
CDOP

DE-MYSTIFYING IOT WITH LOW TECH APPROACHES.



Highlights / standout ideas

Better community engagement to reduce public anxiety.

Low-tech solution to high-tech solutions.

London-wide map (QR code) that can engage the public and also gamify IoT

Educate people about what's already in the space and notify them about what's coming. Part 1 can be standalone while Part 2 is in development.

Important objections

Do we not already have it? - Not in London

Sidelwalk Labs

What's the sustainable case?

Approach similar to Tactical urbanism - temporary/rapid deployments, easily updateable. How do we roll out across London? Can the concept be at scale

What's the back end? Who downs this backend

Similar to

Sidewalks Labs (Toronto project)

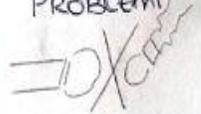
Boston

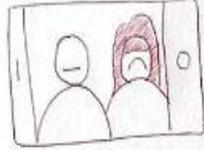
TfL (mobile phone)

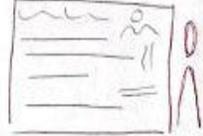
Hello Lamppost

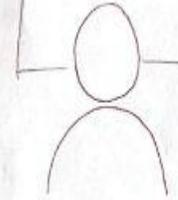
VOTES

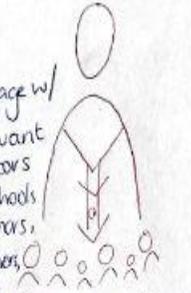
6

SOCIAL PROBLEM


REPORTED + WHERE


56 "The New Normal" is rolled out in schools to 4+ year olds.


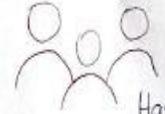
Does this affect the delivery of services in the way initially envisioned?


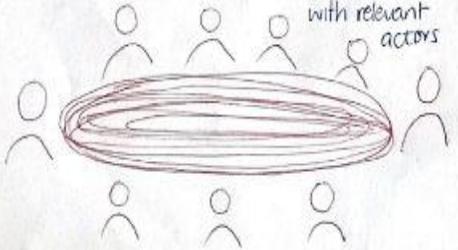
Engage w/ relevant actors in schools (governors, teachers, parent groups) to propose solution


1 2
 3 4

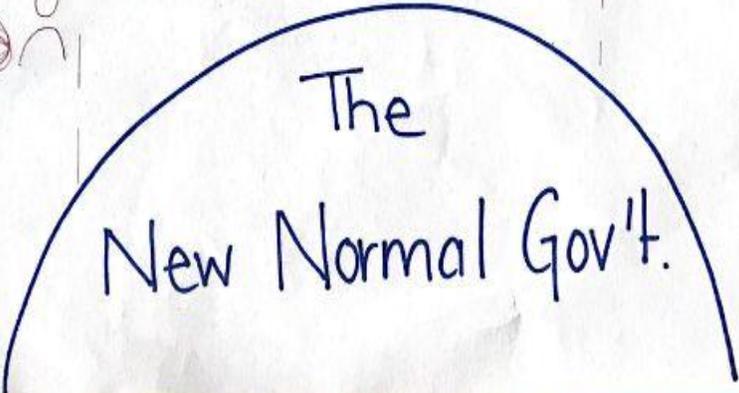
What happens next to the devices installed?


7 8

Have we developed a growing tribe of tiny activists and advocates?


Additions to "THE NEW NORMAL" are developed with relevant actors


Feedback is logged


The New Normal Gov't.


Came from ideas on public anxiety on IoT. People don't know what it is so breaking this down. The new normal. Educating young people in the ways that government operates.

Highlights / standout ideas

Very detailed already!
 Public narrative
 Includes education (particularly early years) and non-technical audience (including adults and borough officers)

Important objections

Maybe make it more simple and segmented
 Maybe too education based and not enough IOT solutions orientated (but this a small objection)

Similar to Sandy's and David's ideas. Wellington Comic -

<https://wellington.govt.nz/~media/about-wellington/resilient-wellington/files/strategy/resilience-strategyj001767-100-web.pdf?la=en>

Stavanger (Triangulum project) IoT video
<https://www.youtube.com/watch?v=AwTJZPXAob4>

VOTES - 12

- NP
- OO
- DLR
- PV
- ETP
- RO
- CDOP

(A) Who is collecting data?

↳ Public + Private

(B) Where is it being stored?

↳ Who has access and why

(C) What for?

↳ Why is the data being collected?

Are there multiple reasons?

(D) When will

data collection cease?

↳ length of time of storage

↳ Does its purpose change?

↳ What happens thereafter?

* Unless a Local Authority can point to a who, what, why, when, where and how for using/communicating the use of IoT, it (business case) should not be developed.

* Test resources already available

↳ What's wrong?

↳ What's long?

↳ What's strong?

* To who + what for?

↳ Different twist for target audience? how?

Identify + Signpost resources

* Identifying the purpose requires active research + engagement

* Language that is "accessible" and can be easily understood by a 4 year old.

Set out Purpose

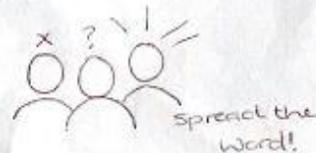
* Engage with Education Services

Leads in London Boroughs

* Ask them for links with schools willing to test

* Link with Citizenship and/or ICT Departments in schools

Delivery



* Who does/will it affect?

↳ Secondary + Primary

↳ length of time

↳ Test? (visit site/use device + feedback)

* Variables

↳ Test it on the least likely and observe

Delegate Entitlement

* Feedback days

* Tester days

* Twitter Q&As

* "App Review" System

* Parent engagement through existing platforms

Review + Evaluate

* Develop the messaging - never constant

* How is this embedded?

↳ Advocates

↳ Senior buy-in

↳ Active observers

↳ Intelligent critics

↳ Open + transparent

↳ User groups

* Length Outline narrative
↳ short/long term lessons/courses

* "Bug fixes" System

↳ constant iteration

↳ Publicly state when fixed

↳ Repeat messaging through various channels

(social media, on device;

* Change Testers/ Location

↳ observe impact

TV + Ads on YouTube, etc)

Iterate

Quick Break



@LOTI_LDN @CitiesSharing

#IoTWeek



Assimilate

- Which ideas are similar and can be brought together?

Voting

- Put your initials in bottom right corner of the three ideas that you like the most

Exercise 2:

Assimilate & Voting



@LOTI_LDN @CitiesSharing

#IoTWeek



Lunch...then change venues



@LOTI_LDN @CitiesSharing

#IoTWeek



Which idea are you interested in developing?

- Form a team with those who are similarly interested
- Find a space where you can work for the rest of the afternoon and Thursday

Decide what you want to present on Friday and start prototyping!

If you need further support we can help you think through

- the user
- a storyboard for the solution
- the business model for the solution

Exercise 3:

Form teams and start prototyping



@LOTI_LDN @CitiesSharing

#IoTWeek



To think about whilst prototyping and for Friday presentation

- **What is the PROBLEM you're solving?**
 - Which "How might we...?" question inspired this idea?
- **Who is the target USER?**
 - General public? LA Officer? Member? GLA / LOTI? SME?
 - What user need are you targeting?
- **What is the SOLUTION?**
 - Product? Service? Process? Guidance?
- **How does it WORK?**
 - Are you developing a high-level design for a solution or a process to get to a solution?
 - What is the MINIMUM VIABLE PRODUCT (MVP) you can create now?
- **WHO is involved in the solution?**
 - Who is developing the solution? Who funds the solution?
- **How will this idea be SUSTAINED after the sprint?**
 - What can we develop now (Wednesday / Thursday) which will make it more likely that the solution will be developed further?

Show & Tell



@LOTI_LDN @CitiesSharing

#IoTWeek



Next steps

- **David's suggestions for visual communication tools**
- **Tomorrow**
 - **Timings**
 - **Plan**
 - **Roles**
- **Friday**
 - **Who is here on Friday?**
 - **10 minute presentation per team with 5 minute questions**
 - **5 slides per team to cover following key points:**
 - **What is the PROBLEM? Who is it a problem for (USER)?**
 - **What is your SOLUTION? - High-level explanation**
 - **How does it WORK? - Visual slide**
 - **WHO is involved and how will it be SUSTAINED post sprint? i.e. £££**
 - **You can deviate from this structure across the 5 slides as long as everything is covered?**

London Office of Technology & Innovation and Sharing Cities

#IoTWeek

Thank you!



@LOTI_LDN @CitiesSharing

#IoTWeek



loti