



Department
for Transport

NaPTAN | NPTG

Technical working group





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- 1. Welcome and introductions**
2. Ways of working
3. Aims and progress
4. Topics for discussion



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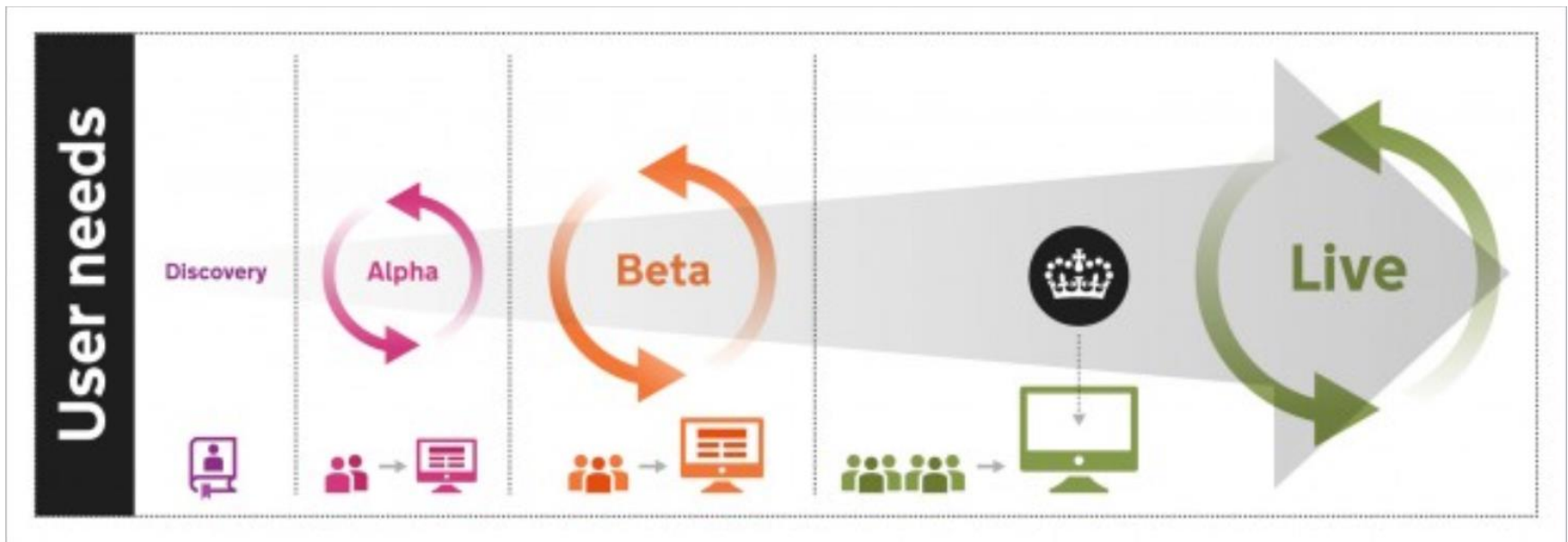


- ▶ We expect that the redevelopment of NaPTAN will impact everyone here – your views are important to us
- ▶ We want to use these sessions to start a two way dialogue. Your feedback is crucial if we are to create a system that works for everyone
- ▶ We want to test our initial ideas and designs before we commit to anything



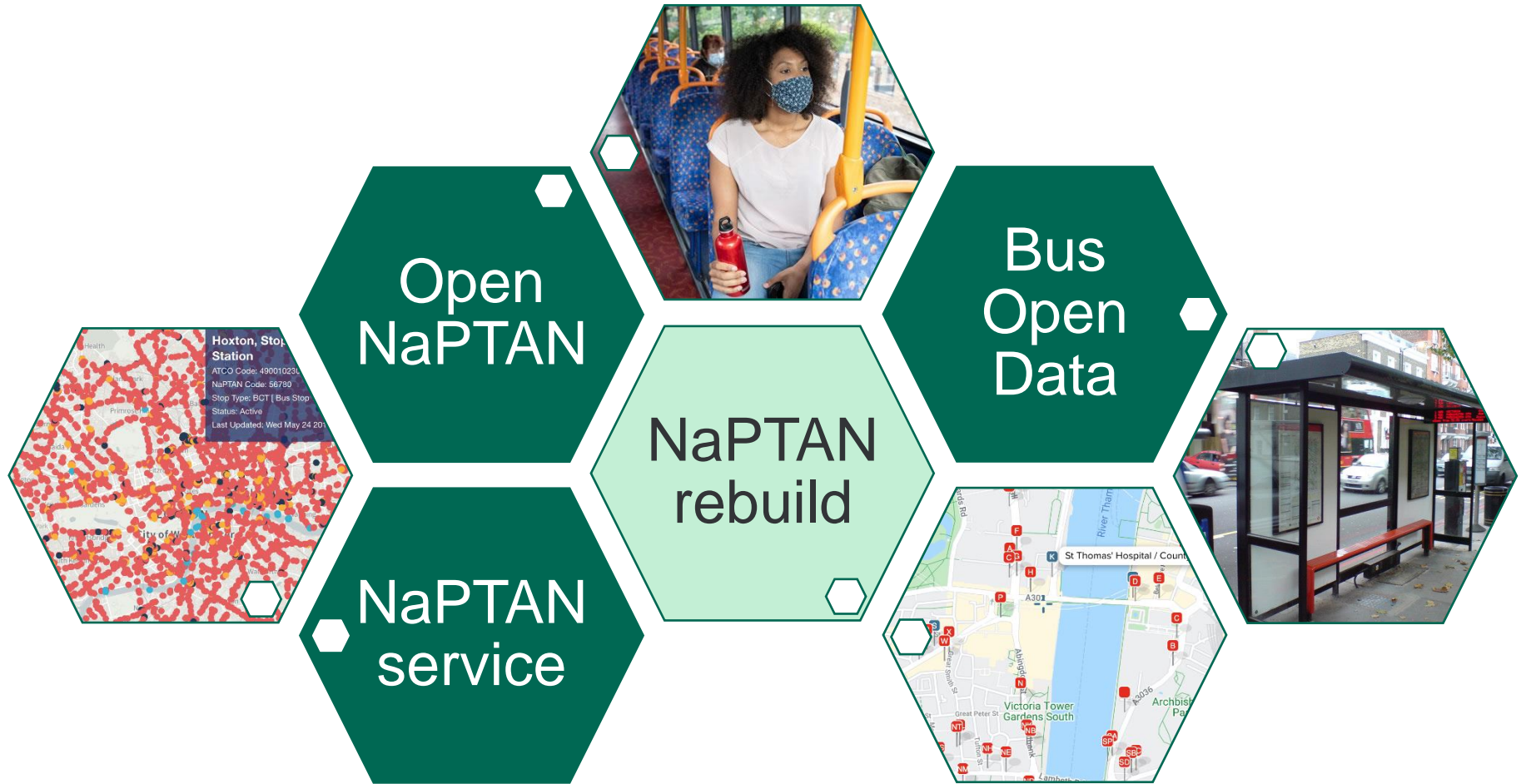
Ways of working | Agile delivery

- ▶ We follow the government process for digital delivery:





Ways of working | Wider work





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Our main discovery findings were:

- ▶ Transport is changing and to stay useful, NaPTAN must adapt
- ▶ The technology behind NaPTAN is a barrier to any development. We are already unable to incorporate changes to the data standard made in 2012. Migration of existing assets is not an option
- ▶ There is a delicate eco-system keeping NaPTAN going



Short term (all completed)

- ▶ Address high risk security issues
- ▶ Implement a formal support model
- ▶ Ensure compliance with accessibility legislation

Medium to long term (next 8-10 months)

- ▶ Rebuild the existing NaPTAN service in line with our data and technology strategies.
- ▶ Ensure capabilities are in place to maintain and support the new service.



Since our last update at PTIC we have:

- ▶ Implemented performance and security improvements
- ▶ Ensured compliance with accessibility legislation and improved NaPTAN web content
- ▶ Started work on initial prototypes for a new NaPTAN service



Aims for the next three months

- ▶ Prototyping and testing a new version of the Naptan system
- ▶ Working with our technical delivery partner, upskill DfT development team
- ▶ Develop a strategy for the implementation of the new service



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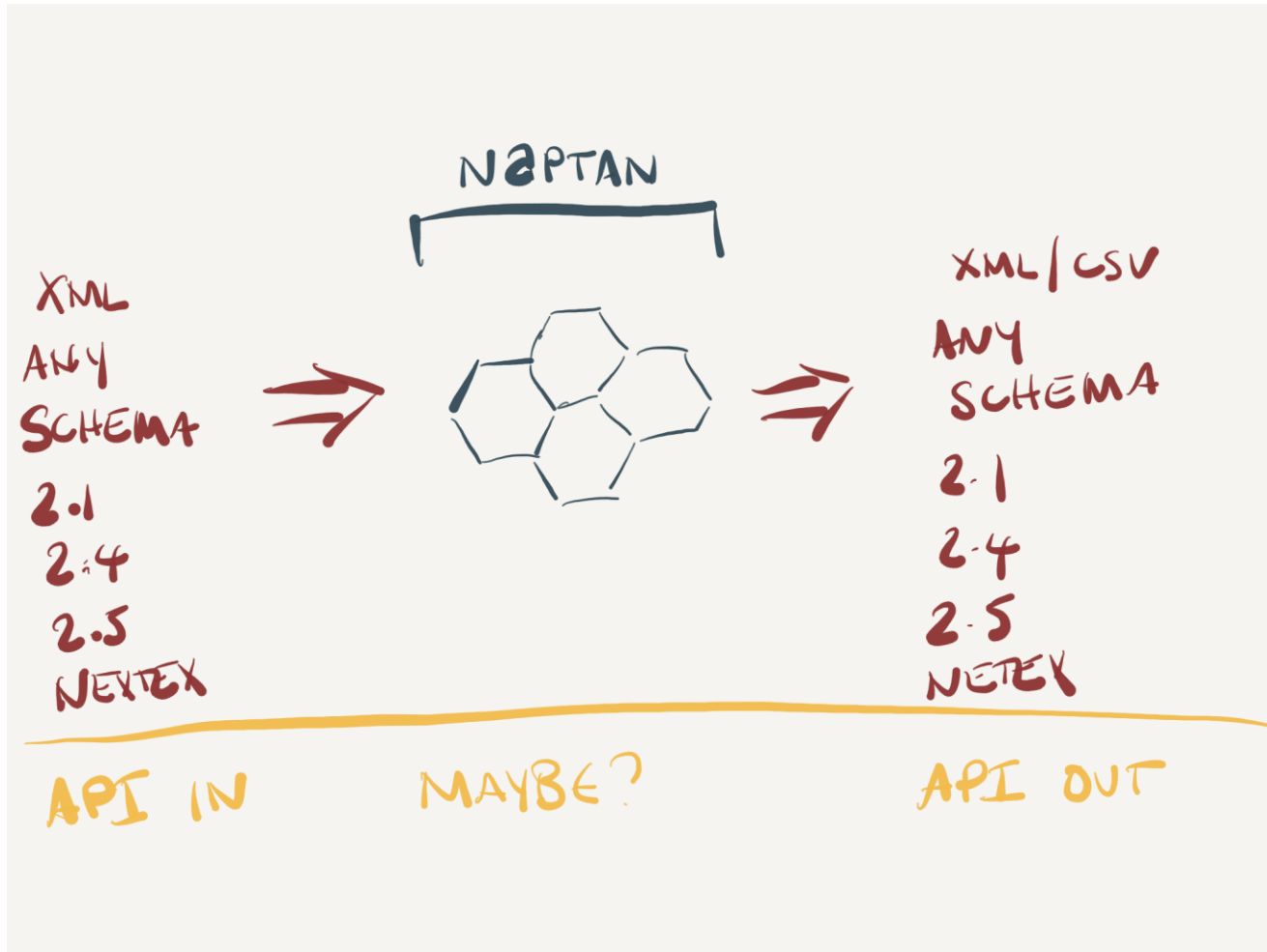
A few terms – so we all on the same page

- ▶ FTP – File Transfer Protocol – used currently, and not secure. Username, Password and Data are all sent unencrypted from the client to the server.
- ▶ FTPS - "FTP Secure" - Adds an extra layer to FTP so information is encrypted between client and the server
- ▶ SFTP - "SSH FTP" - a protocol built with security in mind – using Secure Shell (a cryptographic protocol for operating network services over unsecure networks).

- ▶ API - Application Programming Interface – a way for computers to interact and send or receive data
- ▶ XML – a language used to share data
- ▶ JSON – a language used to share data
- ▶ CSV – Comma Separated Values – a format for sharing data



What we're testing in the Tech Alpha





- ▶ We want to test Ingestion
 - ▶ Of any schema – from 2.1 to Netex
 - ▶ if we can detect the schema used
 - ▶ If we can validate fields

- ▶ We want to test Output
 - ▶ Of any schema – from 2.1 to Netex
 - ▶ Independent of what was input (Show when data not supplied)

We want to ask about APIs and how useful they might be for uploading and using data from NaPTAN



- ▶ Are there ways for authorised users (e.g. Bus Operators) to use NaPTAN to raise issues with a stop
- ▶ Should we help LA's and Bus Operators work in NaPTAN so that the questioned bus stops are visible?
- ▶ Would this help end users – The Public using a bus?

- ▶ How can we make the NaPTAN data the best quality?
- ▶ What's the best way of building in these Feedback circuits into the systems?



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Any questions?