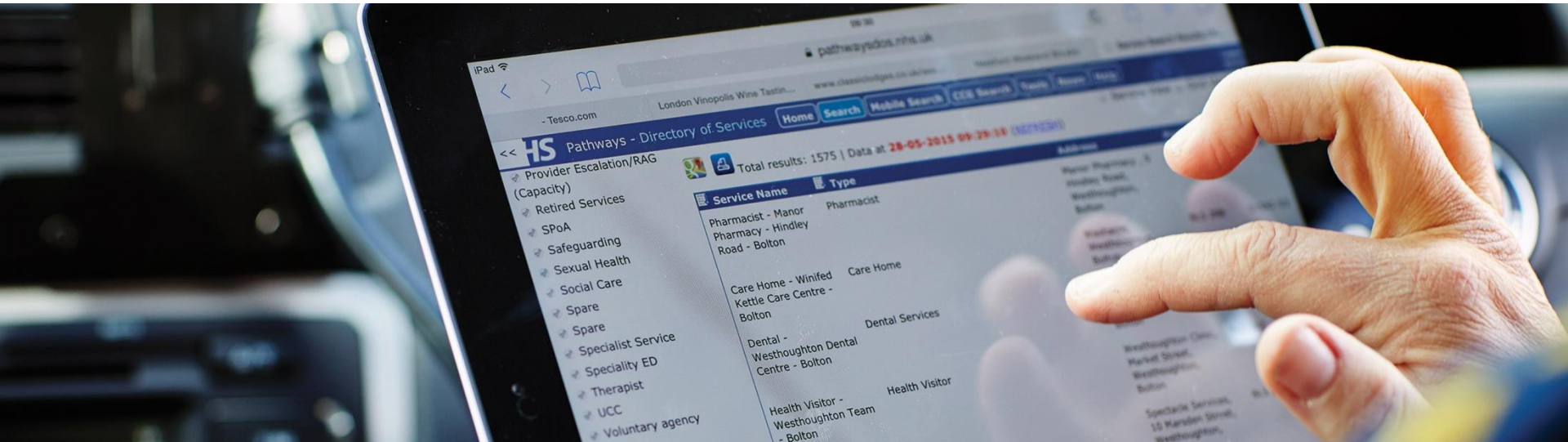


# CDA on FHIR

Can it be done?



Information and technology  
for better health and care

Richard Kavanagh  
Head of Interoperability Data Standards  
NIB Integrated Care Domain



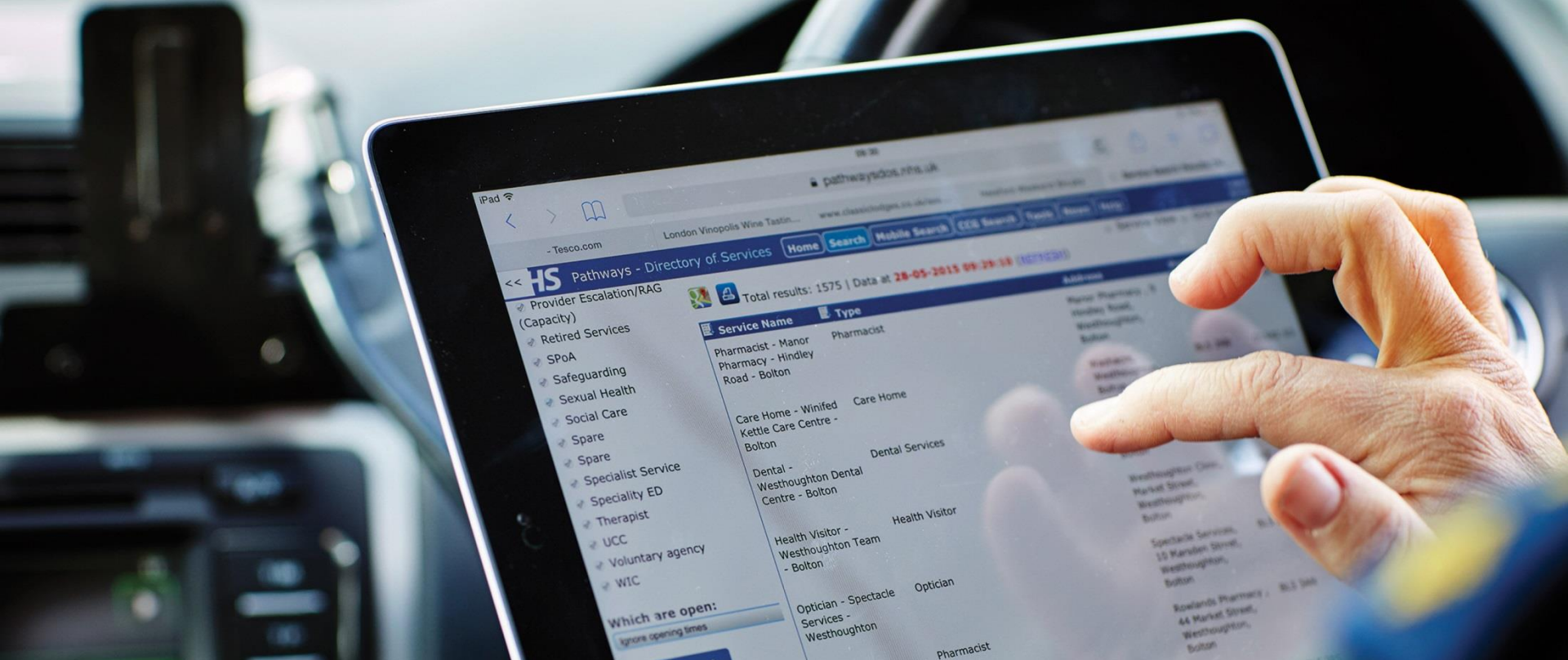
# CDA Overview

# Clinical Document Architecture - Overview

- **Clinical Document Architecture (CDA) is a standard from HL7 for representing clinical documents**
- **CDA is based on the HL7v3 standard. HL7v3 is widely deployed in England for most SPINE hosted applications (e.g. PDS, SCR, EPS etc.)**
- **CDA is the standard used by a number of operational systems. These include national solutions for “Transfer of Care” & “NHS111” plus regional solutions such as “Crisis Care Extract” in London.**

# Clinical Document Architecture - Overview

- **Implementation of CDA relies on an understanding of HL7v3 which historically has proven to be complicated for implementers**
- **As the maturity of CDA implementations matures (trending towards structured, coded entries) the implementation of complexity of HL7v3 increases**
- **The development of HL7v3 specifications is difficult and not inclusive of the wider interoperability community**
- **The use of CDA for local interoperability flows is not attainable for most implementers**



# The arrival of FHIR

# The arrival of FHIR

- FHIR is now being utilised for multiple national interoperability solutions.
- FHIR is endorsed by community groups such as INTEROpen and Code4Health Interoperability Community.
- FHIR is being adopted organically across the NHS in England.
- The complete ecosystem for CDA should be replicated for FHIR
- Should we continue with clinical documents in HL7v3 or FHIR (or both?).

Rigorous testing is required to discover whether this can be achieved.  
This testing should be open and inclusive of the interoperability community.

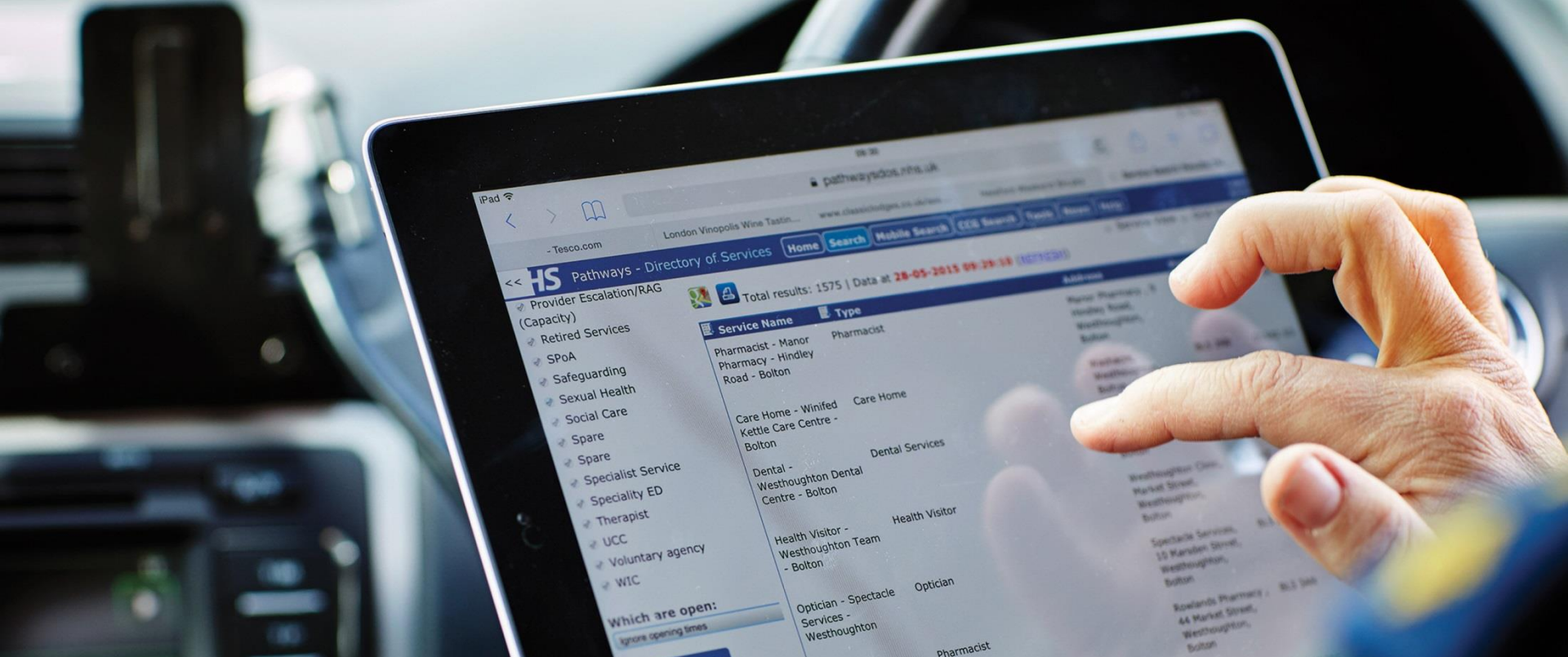


# CDA on FHIR - Success Criteria

# The candidate success criteria..

- Take the same information content in current CDA and express it using FHIR resources
- Have the capability of supporting the current CDA maturity approach as utilised within the ITK CDA offerings
- Align with international standards (unlike NHS Digital CDA) so as to minimise rework for international implementers
- Share common profiles with API solutions
- Ensure implementers feedback on the proposal and the solution options
- ...?





# CDA EcoSystem

# Setting the scope.. What's missing?

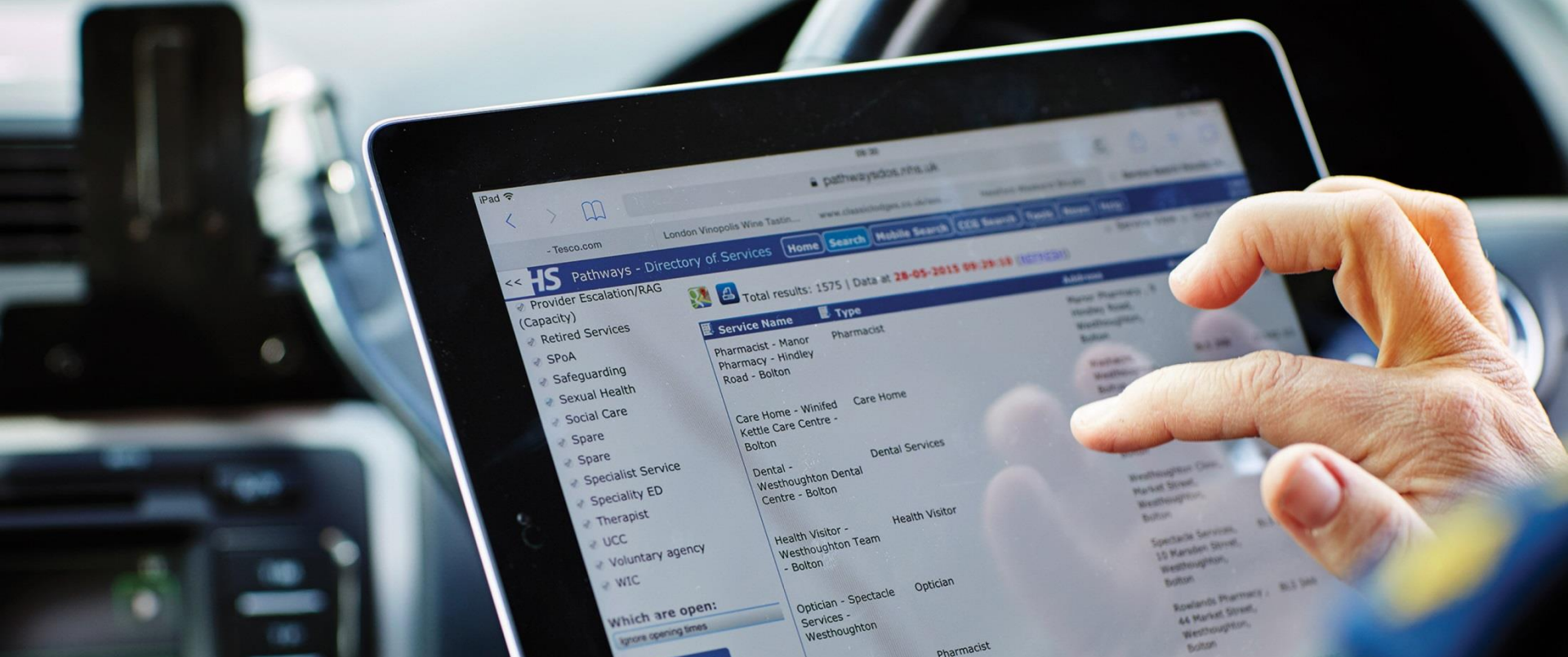
- Processes and tools for creating FHIR CDA profiles
- Processes and tools for validating FHIR CDA documents against profiles
- Provision of supporting CDA “messages” (Business Acknowledgements, Nullification etc.)
- Exemplar transforms comparable to existing CDA to HTML transforms
- Implementation guidance comparable to that which exists for current CDA implementations
- Guidance on extra capabilities offered by FHIR (including extensions)



# Progress to date

# To get the “ball rolling” ....

- Contact with US “C-CDA on FHIR” project to establish common ground and approach.
- Three exemplar strawman “FHIR on CDA” profiles being constructed
  - End of Life Care
  - Transfer of Care – eDischarge
  - Transfer of Care – Mental Health Discharge
- Strawman profiles are just that; feedback and enhancement from the implementation community is required
- All work to be published on GitHub for public visibility.
- Kick Off webinar in October
- Implementation guidance comparable to that which exists for current CDA implementations
- Guidance on extra capabilities offered by FHIR (including extensions)



# Getting involved

# Join the community ....

- NHS Digital will host webinars and face-to-face workshops to facilitate the collaborative development of a FHIR CDA capability
- Request will be made to HL7 UK for a dedicated “sub group” to provide the community space to operate in
- HL7 UK provides an environment to create FHIR capabilities in that it can interact with the core FHIR team if issues/changes need to be requested to the core specification.
- Participation is welcome (essential) to ensure success.

# Raise your hand to get involved ....

Webinar dates will be published shortly. In the mean time register your interest in participation.



[information.standards@nhs.net](mailto:information.standards@nhs.net)

Include “CDA on FHIR” in the subject line



# Proceeding with caution



# Proceeding with caution

- The work to create a FHIR CDA capability is just beginning. It will take time to agree a solution and get the complete ecosystem in place
- Nobody is currently obligated to either send or receive FHIR CDA documents
- All programmes offering CDA based solutions remain unchanged. CDA is still the method of delivery for Transfer of Care, NHS111 etc.

When FHIR CDA has been demonstrated to be attainable then potential implementation approaches can be explored.

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