

Digital Strategy Workstream 3: IMPROVEMENT AND INNOVATION **Advanced Analytics Group (AAG) for Wales** **FINAL** Terms of Reference

This document defines the Terms of Reference of the Advanced Analytics Group for Wales under the Digital Health and Care Strategy for Wales

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Author: Paul Howells
Approver: Dr Sally Lewis (Chair AAG)

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1 DOCUMENT HISTORY

1.1 Revision History

Date	Version	Author	Revision Summary
29/7/2019	0.1	Paul Howells	Initial draft

1.2 Reviewers

This document requires the following reviews:

Date	Version	Name	Position
August 2019	0.1		Circulated for initial review by Advanced Analytics Group members
August 2019	0.1		Circulated for review to Workstream 3 members
17 September 2019	0.1		Final review and approval by Advanced Analytics Group members

1.3 Authorisation

Signing of this document indicates acceptance of its contents.

Author's Name:	Paul Howells		
Role:	Programme Lead		
Signature:	By email	Date:	Approved at 17 Sept 2019 meeting

Approver's Name:	Dr Sally Lewis		
Role:	Chair of AAG		
Signature:	By email	Date:	Approved at 17 Sept 2019 meeting

1.4 Document Location

Type	Location
Electronic	NWIS SharePoint site

2 Background

Welsh Government's Statement of Intent **Better use of health and care data for safe, effective care and efficient service**, published in October 2017 sets out the four strategic priorities to support a more data driven NHS. These are set out below:

1. Develop a more transparent framework for how we manage, use and share health and care data.
2. Developing the skills and resources required to realise the full value of the data we hold
3. Improving the data collection and quality.
4. Put in place the digital solutions to ensure that health and care information is available as a resource for use at national and local levels, by consolidating and building on existing data flows and management.

These priorities are being driven forward by the Improvement and Innovation Workstream (3) of the NHS Wales Digital Strategy Programme, with dedicated programmes of work in place to:

- Establish a national Information Governance policy and framework.
- Develop the capacity and capability within our current and future workforce.
- Improve the quality of our data through the application of information standards such as Snomed Clinical Terms.
- The establishment of a National Data Resource which allows large scale information to be shared securely and appropriately, also identified as a key priority in A Healthier Wales, to be delivered by 2020.

To support and enable the delivery of these priorities, Workstream 3 has agreed to set up an Advanced Analytics Group for Wales. This group will lead the development of advanced analytics capability across health and care in Wales.

3 Purpose of the group

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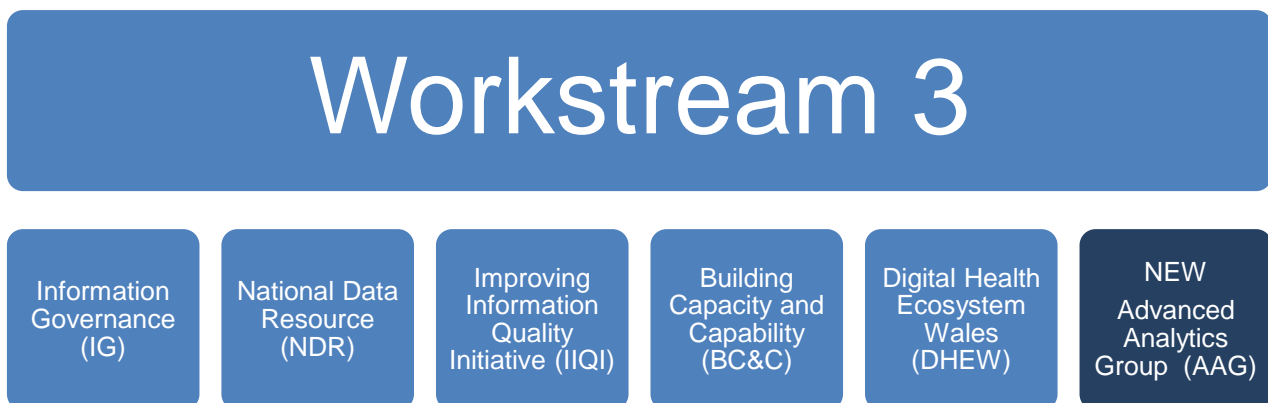
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The overall purpose of this group is to enable, design and deliver the AAG work programme in the Improvement and Innovation Workstream to meet the objectives of the Digital Health and Care Strategy, at pace and scale.

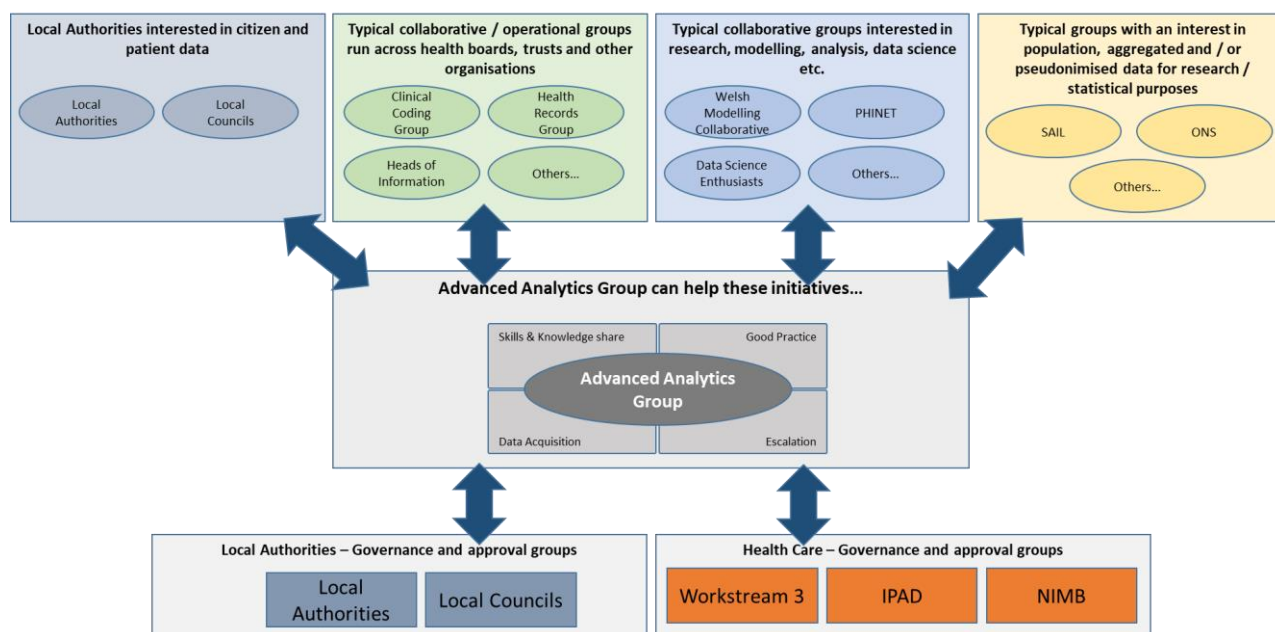
Dr Sally Lewis, National Clinical Lead for Value-Based and Prudent Healthcare in Wales has agreed to chair the group. The work the groups undertakes will complement and seek to work with the range of existing analytical, data science and other similar technical focus groups across Wales. An important difference between these groups and this new group is that the Advanced Analytics Group is accountable to and can directly influence the work of Workstream 3. The Advanced Analytics Group will have a both a strategic and technical focus and will aim to bridge the gap between the analyst and data science community and those managing and leading services and strategies.

4 Governance

There are currently four sub-groups under Workstream 3 to deliver the above four priorities. It is envisaged that the Advanced Analytics Group will also become a sub-group of Workstream 3, as shown in the below diagram.



The AAG is a formal sub group of Workstream 3. The AAG will therefore act in a coordinating role, gathering requirements and understanding the challenges across other similar groups across Wales and if required feed this into Welsh Government / national decision making groups. The below diagram illustrates this.



5 Objectives

The objectives for the group are:

- Bring together innovative uses of data across healthcare in Wales into one place
- Prioritise where further investment or research might be required and agree a plan of action to achieve further investment
- Discuss options for rapidly prototyping solutions
- Investigate how resource can be deployed to support projects/initiatives
- Factor into development of the National Data Resource - for local and national uses, as appropriate
- Showcase, engage and share best practice - supported by the Digital Health Ecosystem for Wales programm
- Facilitate collaboration on projects/initiatives
- Discuss pros and cons of different approaches

6 Deliverables

Workstream 3 has asked that the first key task for the group 'to be the creation a catalogue of healthcare data innovation across Wales, e.g. advanced analytics, data science, machine learning, AI and big data. Then, as a group, prioritise this. Then see what we can support and how, roadmap, resourcing, business cases etc.'

This outline work programme for the group is shown below. It will be continuously reviewed by the group and developed iteratively as the work progresses. We will consult with and report progress to Workstream 3 on this outline plan and any future iterations. The below outline work programme is focused deliberately on only two key challenges – the will ensure the work is 'focused' at this stage. This is also based on the fact that there is currently no dedicated funding for this group, so we will be relying on best endeavours from existing resources at this stage. Funding might be available through the National Data Resource programme – if that materialises, then the group will adapt if necessary and review its work programme and scope.

Outline work programme:

Product / task	Milestone	Time-scale	Additional comments
Catalogue of innovative uses of data	Digital prototype developed and being reviewed	Q2	
	Alpha / beta version online and being used	Q3	
	Live production version online and being used	Q4	This is not the end, the product will be continuously developed and improved iteratively
Engagement	Plan developed	Q2	Based around the following key challenges identified at the first two AAG meetings: <ul style="list-style-type: none"> • Bridging the gap between analytics and service needs • Accelerating the analytics agenda • Data literacy challenge • Education on the basics of <i>new</i> and advanced analytics • Engaging with clinical / operational colleagues and

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Product / task	Milestone	Time-scale	Additional comments
			<p>executive teams about advanced analytics – demonstrating the art of the possible, what big questions does the service want answering and how can advanced analytics help answer these questions</p> <ul style="list-style-type: none"> Lack of a common work programme for advanced analytics for health and care in Wales and engaging with planners and policy makers

7 Meetings

Frequency

Quarterly face-to-face and monthly in between by Skype.

Quorum

Matters which are to be reported to WS3, IPAD or NIMB will require agreement from 75% of membership. Where unanimous agreement is not reached any report will include a statement enabling the alternative view point to be succinctly provided.

Actions

Developed within week following meeting. Agenda and papers to be sent three days prior to next planned meeting.

8 Membership

Member	Organisation	Role
Alex Thomson	FDU	Head of Analysis
Arwel Lloyd	ABUHB	Principal Business Analyst
Christopher Medway	CAVUHB	Bioinformatician, Medical Genetics

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NHS Wales Digital Health and Care Strategy
Improvement and Innovation Workstream



Member	Organisation	Role
Craig Barker	ABMU	Business Intelligence Information Manager
Dave Price	NWIS	Principal Specialist / Data Scientist
David Pearton	NWIS	Senior Business Analyst
David Williams	CTUHB	Head of Information Services
Emma Powell	Velindre	Head of Information Services
Emma Wilkins	FDU	Deputy Director
Gareth John	NWIS	Head of Data Warehousing and BI
Gwyndaf Parry	Social Care Wales	Data and Intelligence Manager
Hamish Laing	Swansea University	Professor of Enhanced Innovation and Outcomes
Helen Northmore	DHEW	Programme Delivery Manager
Jennifer Morgan	FDU	Performance Analysis Manager
John Dyer	NWIS	Community Information Manager
John Morris	WG	Head of Health, Social Services and Population Statistics
Lee Morgan	ABMU	Head of Information Services
Lisa Davies	ONS	Business Development and Partnership Manager
Lisa Powell	FDU	Programme Manager
Lloyd Evans	PHW	Principal Public Health Intelligence Analyst
Lynne Wilde	ABUHB	Head of Transformation (Information)
Michelle Williams	Powys Teaching HB	Head of Information Services
Neil Jenkins	NHSSP	Head of Modernisation and Technical Services
Paul Howells	NWIS	Programme Lead for NDR and DHEW
Paul Lewis	RCTCBC	Digital Improvement
Rowena Bailey	ONS	Senior Data Scientist
Sally Lewis	ABUHB (VBHC)	National Clinical Lead

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Member	Organisation	Role
Sebastien Neale	HDdUHB	Lead Specialist / Senior Analyst
Sian Morgan	CAVUHB	Bioinformatician, Medical Genetics
Theodore Joloza	ONS	Head of Research and Academia
Tim O’Sullivan	NWIS	Head of Information Services
Tom Connor	PHW – Pathogen Genomics Unit	Analytical Support – Molecular, ICDS
Wendy Dearing	NWIS	Head of Workforce and Organisational Development

We will consider expanding the membership to include appropriate academic representation and others as appropriate as the group further evolves.

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