



# N3 JANET Gateways Update+

**NHS-HE Forum**

19<sup>th</sup> November 2009

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# Outline

- Current Position on N3 JANET Gateway
- The New N3 JANET Gateway
- Discussions on Access Management





Objective:

**”To achieve good inter-operability between NHS and Higher Education (HE) networks that enable secure anytime, anywhere access by medical, nursing and allied profession students, clinical teachers and researchers”**

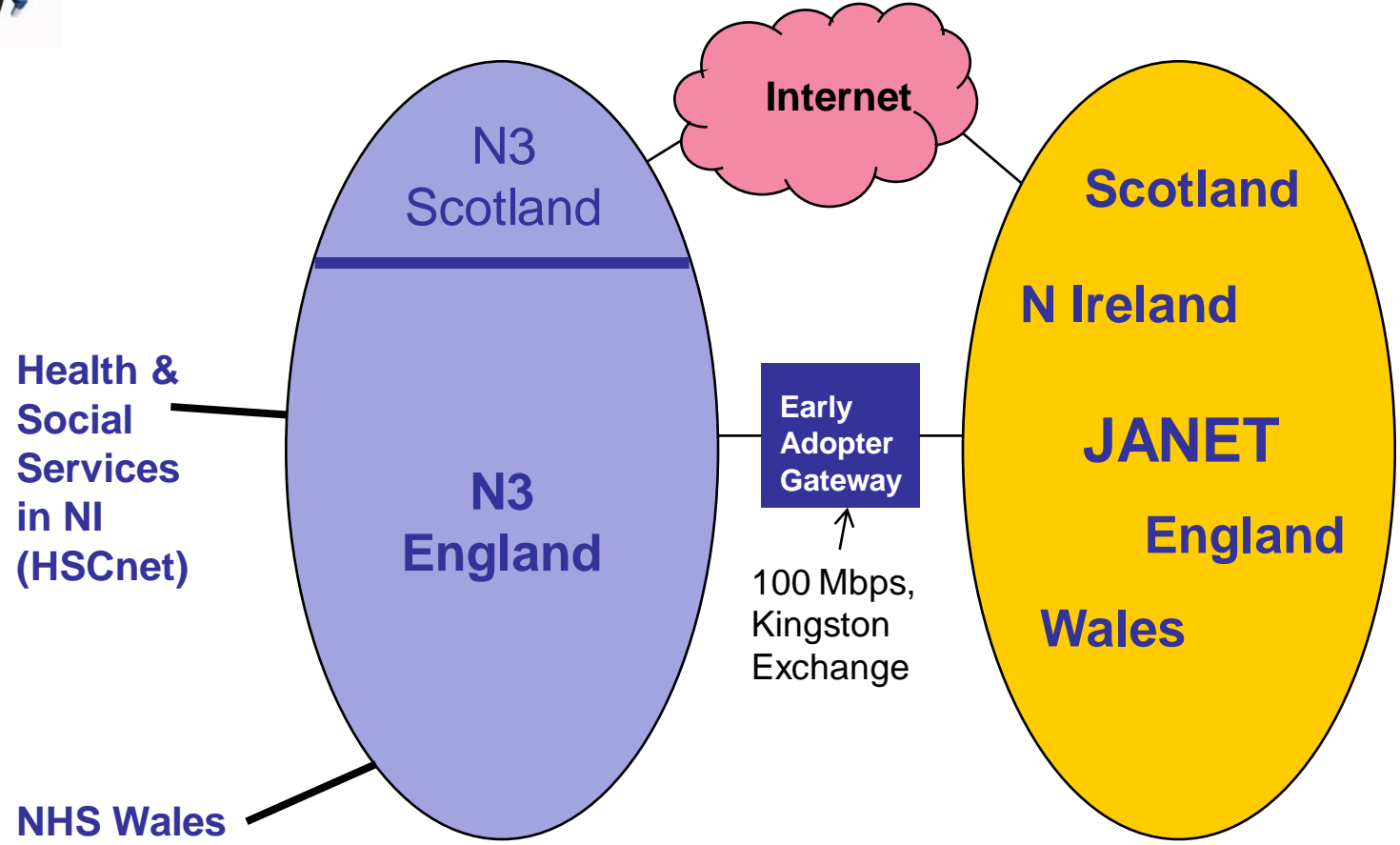
[www.nhs-he.org.uk](http://www.nhs-he.org.uk)

To move away from 2 PC syndrome





# N3 for NHS network in England and Scotland, JANET for Education & Research

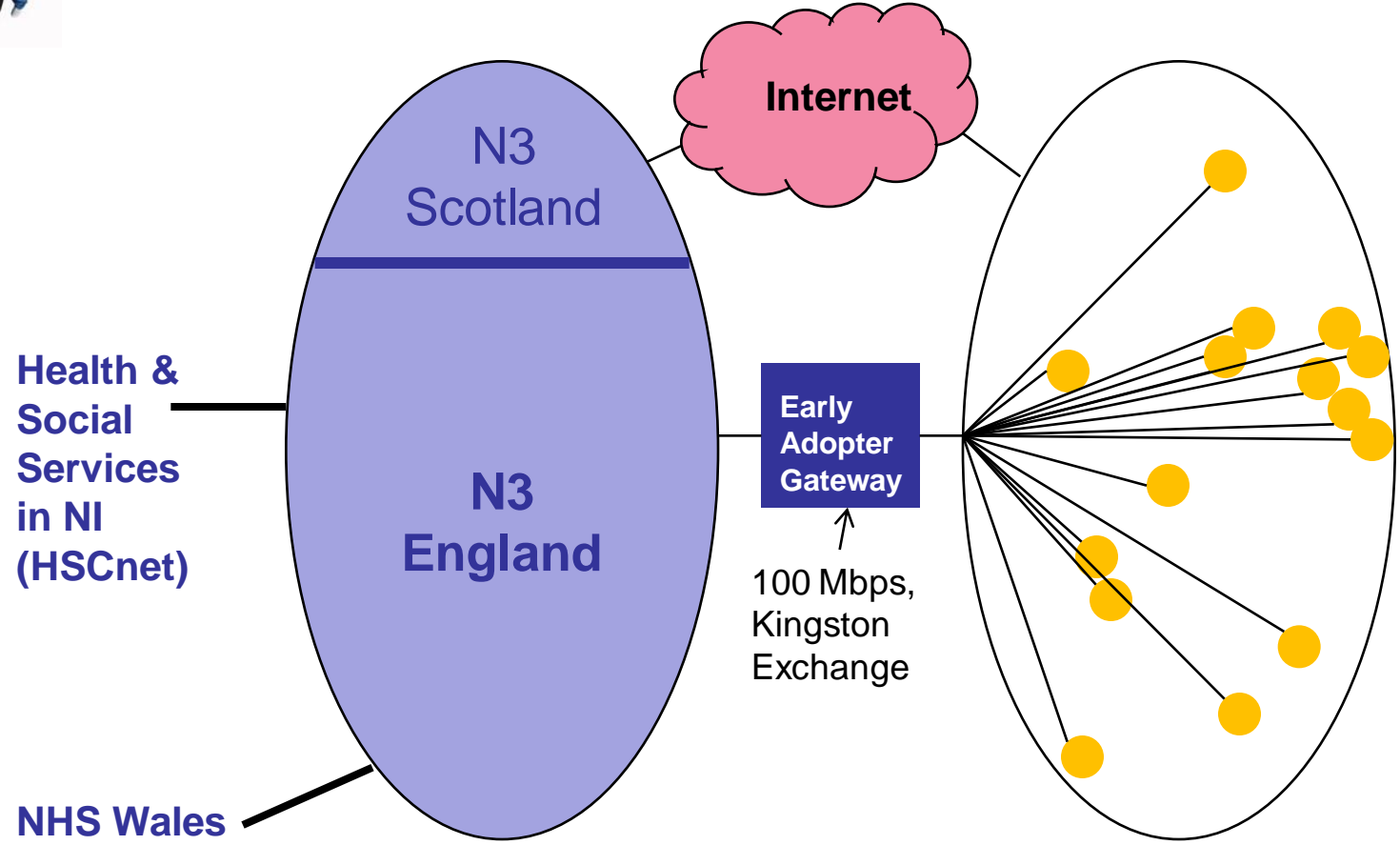


(PSBA)





# N3 for NHS network in England and Scotland, JANET for Education & Research



(PSBA)

Sessions initiated in N3, "Any N3" through "Any port" but to early adopter IP addresses only



- CETL4HealthNE: University of Newcastle with University and NHS partners in NE of England
- University of Bristol & UWE / Clinical Academies in NHS
- University of Birmingham
- Wellcome Trust Sanger Institute
- University of Edinburgh
- University of York
- JANET Videoconferencing Service (JVCS)
- University of Salford
- University of Leeds (for NIHR)
- University of Plymouth
- South Devon Healthcare NHS Foundation Trust (as far as CfH approval for use of JANET Roaming)



# Categories of Benefit



1. Removing the need for University lease lines to NHS Trust sites
2. Removing traffic from the N3 internet Gateway
3. More Flexible Firewall Rules for access to JANET connected sites
4. Co-ordinated Service Over-lay
5. New Appropriate Access.....



# Now: Sessions initiated in N3



Sessions initiated in:

	N3	JANET
No PID	Now Eg access to VLEs	Investigating: Eg NHS intranets
PID	Eg collecting research data	Access to NHS clinical systems





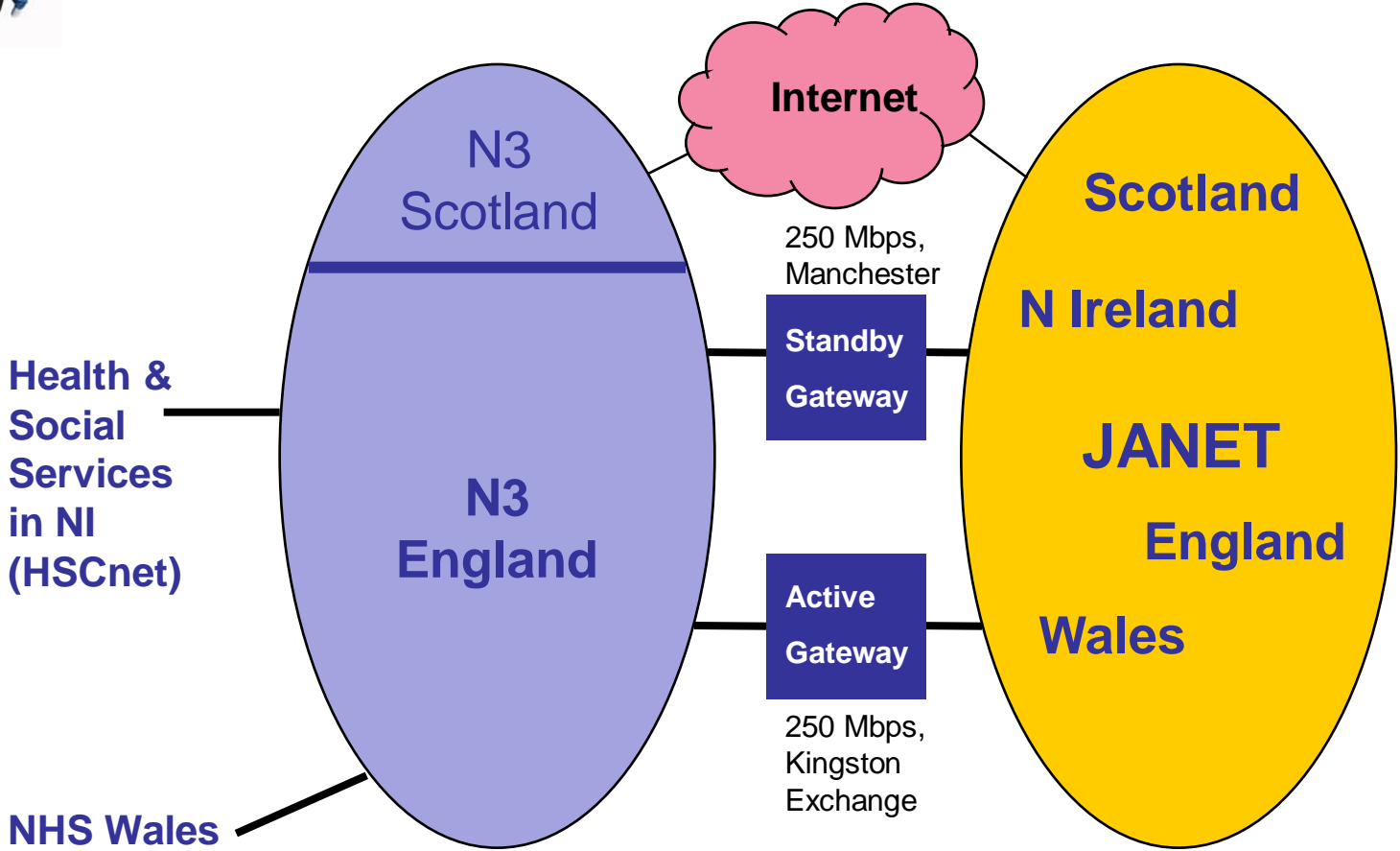
# The Good News

- The new N3 JANET Gateway Service has been ordered:
  - 2 Gateways at 250 Mbps active/standby
  - Joint funded with Connecting for Health
  - All N3 JANET traffic (sessions initiated in N3)
  - Timescale to be available by the end of the month (“Spring 2010”)
  - Full service management





# N3 for NHS network in England and Scotland, JANET for Education & Research



(PSBA)



And so.....

- Early adopter will carry on until the new Gateway takes over (routing switch handled centrally)
  - Any development of the videoconferencing will be a separate business case
- .....





- Infrastructure a renewed spur to work on “sessions initiated in JANET” along with the other main drivers, such as RCP
- And this links to discussions on Access Management ...Henry Hughes presented on some aspects of this last time:





# Federated Access Management and the UK federation



## FAM is:

A mechanism for allowing attribute based access control to local, national and international resources

‘Student @ OU’ not ‘Henry Hughes’ – what SPs need

## The UK federation is:

The UK’s educational federation, operated by JANET(UK)

Funded by JISC and Becta

Many federations now being established worldwide

Education, government, commercial participation



Henry Hughes, NHS-HE Forum May ‘09



# Terminology

## Authentication (AuthN)

Is a user who they say they are?

- Identity

## Authorization (AuthZ)

What is the user allowed to access?

- Rights



With thanks to Mark Tysom, JANET(UK)



# What is Shibboleth?



An initiative to develop an open source, standards-based solution to meet the needs for organisations to exchange information about their users in a secure, privacy-preserving manner.



With thanks to Mark Tysom, JANET(UK)



# What is it used for?



1. Allows a browser user to access protected online resources based on information asserted by their home organisation.
2. Authentication and authorisation mechanism providing access control to online resources.

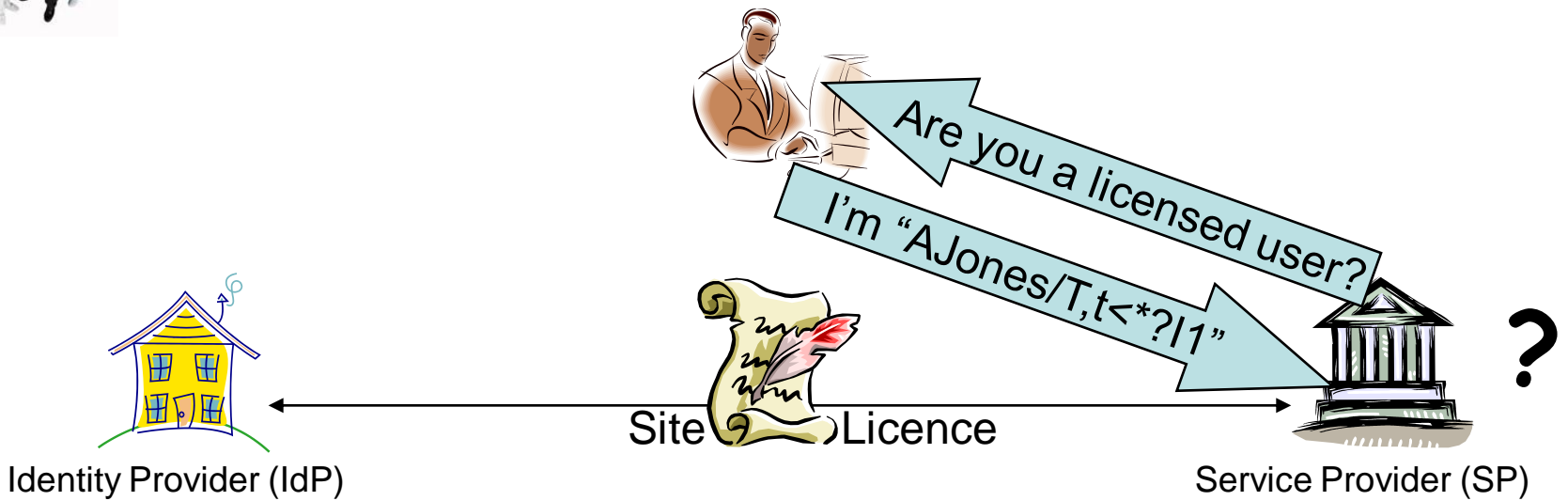


With thanks to Mark Tysom, JANET(UK)





# “Legacy” AuthN & AuthZ



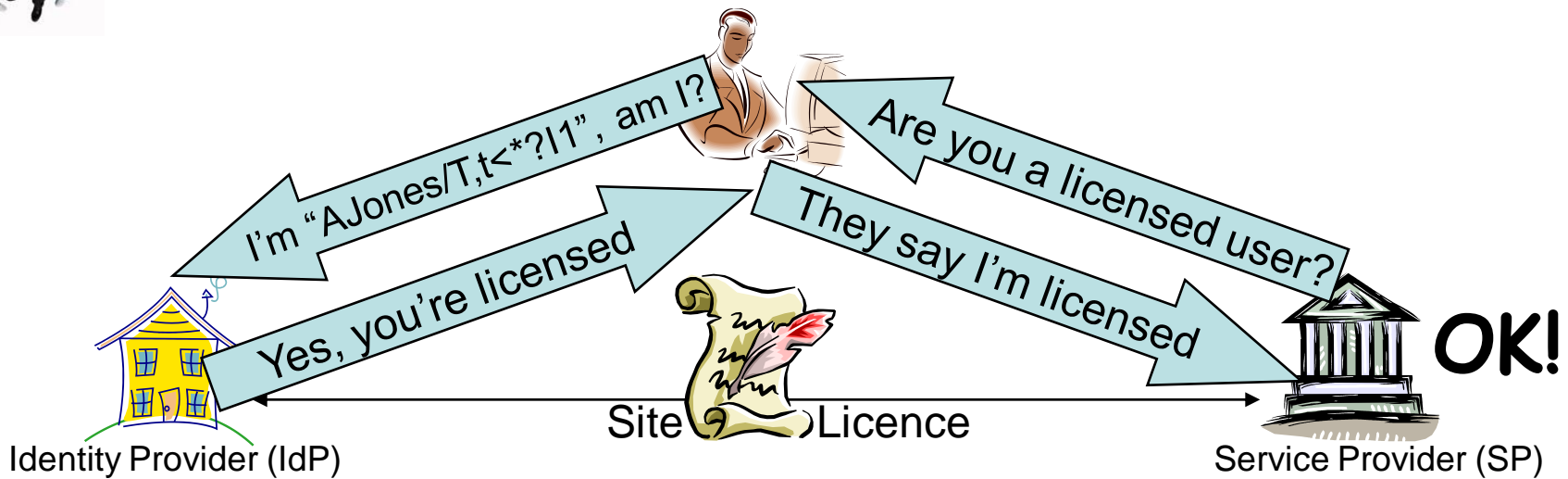
User's identity and personal data are known to all  
Publisher knows more than it wants and less than it needs



With thanks to Mark Tysom, JANET(UK)



# Federated AuthN & AuthZ



User's identity and personal data are protected  
Publisher knows exactly what it needs

(764 members of the  
federation today)

With thanks to Mark Tysom, JANET(UK)



# Henry in Discussions with

- Identity and Access Management Team, Technology Office
- “NHS Gateway” (NHS staff portal in England)
- NHS Evidence
- SHA Library Leads IM&T Group

Other discussions with:

- NHS Education Scotland, NIHR, eLfh





The end

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Thank you.

For more on the UK access management federation for education and research, see [www.ukfederation.org.uk](http://www.ukfederation.org.uk)

