

IAMSECT

Dr Tony McDonald - FMSC
tony.mcdonald@ncl.ac.uk

iamsect.ncl.ac.uk

IAMSECT

- ▶ Inter-institutional

IAMSECT

- ▶ Inter-institutional
- ▶ Authorisation

IAMSECT

- ▶ Inter-institutional
- ▶ Authorisation
- ▶ Management to

IAMSECT

- ▶ Inter-institutional
- ▶ Authorisation
- ▶ Management to
- ▶ Support

IAMSECT

- ▶ Inter-institutional
- ▶ Authorisation
- ▶ Management to
- ▶ Support
- ▶ eLearning with reference to

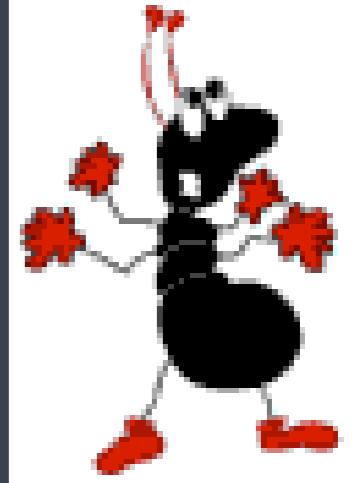
IAMSECT

- ▶ Inter-institutional
- ▶ Authorisation
- ▶ Management to
- ▶ Support
- ▶ eLearning with reference to
- ▶ Clinical

IAMSECT

- ▶ Inter-institutional
- ▶ Authorisation
- ▶ Management to
- ▶ Support
- ▶ eLearning with reference to
- ▶ Clinical
- ▶ Teaching

IAMSECT



- ▶ Inter-institutional
- ▶ Authorisation
- ▶ Management to
- ▶ Support
- ▶ eLearning with reference to
- ▶ Clinical
- ▶ Teaching

Outline

Outline

- ▶ What IAMSECT is about

Outline

- ▶ What IAMSECT is about
- ▶ What we did

Outline

- ▶ What IAMSECT is about
- ▶ What we did
- ▶ What worked

Outline

- ▶ What IAMSECT is about
- ▶ What we did
- ▶ What worked
- ▶ What didn't

Outline

- ▶ What IAMSECT is about
- ▶ What we did
- ▶ What worked
- ▶ What didn't
- ▶ What we're doing next

Background

Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)

Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding

Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding
- ▶ Newcastle, Durham,
Northumbria and the HE Academy

Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding
- ▶ Newcastle, Durham,

Northumbria and the HE Academy



Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding
- ▶ Newcastle, Durham,

Northumbria and the HE Academy



Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding
- ▶ Newcastle, Durham,

Northumbria and the HE Academy



- ▶ Buy in from local NHS



Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding
- ▶ Newcastle, Durham,

Northumbria and the HE Academy



- ▶ Buy in from local NHS
- ▶ NTWSHA on Advisory Board



Background

- ▶ 2 year project, Apr '04 - 16 May '06 (ie *finished*)
- ▶ 150k in JISC funding
- ▶ Newcastle, Durham,

Northumbria and the HE Academy



- ▶ Buy in from local NHS
- ▶ NTWSHA on Advisory Board
- ▶ Also NorMAN representation



Shibboleth - briefly...

Shibboleth - briefly...

- ▶ Single Sign On

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization
- ▶ Local sites hold authentication information on their users

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization
- ▶ Local sites hold authentication information on their users
- ▶ closer to the ‘user’, more likely to be up to date

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization
- ▶ Local sites hold authentication information on their users
 - ▶ closer to the ‘user’, more likely to be up to date
- ▶ Resource sites hold authorization information

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization
- ▶ Local sites hold authentication information on their users
 - ▶ closer to the ‘user’, more likely to be up to date
- ▶ Resource sites hold authorization information
 - ▶ they decide who has access to the resource

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization
- ▶ Local sites hold authentication information on their users
 - ▶ closer to the ‘user’, more likely to be up to date
- ▶ Resource sites hold authorization information
 - ▶ they decide who has access to the resource
- ▶ Federations allow single sign on across institutions

Shibboleth - briefly...

- ▶ Single Sign On
- ▶ Distributed authentication and authorization
- ▶ Local sites hold authentication information on their users
 - ▶ closer to the ‘user’, more likely to be up to date
- ▶ Resource sites hold authorization information
 - ▶ they decide who has access to the resource
- ▶ Federations allow single sign on across institutions
 - ▶ need legal frameworks

To do what?

To do what?

- ▶ Make existing documents more ‘useful’

To do what?

- ▶ Make existing documents more ‘useful’
- ▶ By creating technical and managerial documentation

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project
- ▶ Develop and deploy Shibboleth;

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project
- ▶ Develop and deploy Shibboleth;
 - ▶ identity providers (holds authentication details)

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project
- ▶ Develop and deploy Shibboleth;
 - ▶ identity providers (holds authentication details)
 - ▶ service providers (access to resources)

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project
- ▶ Develop and deploy Shibboleth;
 - ▶ identity providers (holds authentication details)
 - ▶ service providers (access to resources)

To do what?

- ▶ Make existing documents more ‘useful’
 - ▶ By creating technical and managerial documentation
- ▶ Disseminate outcomes of the project
- ▶ Develop and deploy Shibboleth;
 - ▶ identity providers (holds authentication details)
 - ▶ service providers (access to resources)
- ▶ Legal issues, consortium agreements

Why do this?

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme
- ▶ 70 students from Durham in phase 1, join with rest in phase 2

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme
- ▶ 70 students from Durham in phase 1, join with rest in phase 2
- ▶ Durham students use DUO - Durham University Online

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme
- ▶ 70 students from Durham in phase 1, join with rest in phase 2
- ▶ Durham students use DUO - Durham University Online
- ▶ Newcastle students use LSE - Learning Support Environment

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme
- ▶ 70 students from Durham in phase 1, join with rest in phase 2
- ▶ Durham students use DUO - Durham University Online
- ▶ Newcastle students use LSE - Learning Support Environment
- ▶ In phase 2, all use the LSE

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme
- ▶ 70 students from Durham in phase 1, join with rest in phase 2
- ▶ Durham students use DUO - Durham University Online
- ▶ Newcastle students use LSE - Learning Support Environment
- ▶ In phase 2, all use the LSE

Why do this?

- ▶ Newcastle and Durham joint Medical degree programme
- ▶ 70 students from Durham in phase 1, join with rest in phase 2
- ▶ Durham students use DUO - Durham University Online
- ▶ Newcastle students use LSE - Learning Support Environment
- ▶ In phase 2, all use the LSE
- ▶ Also recognised that SSO was going to be extremely useful

What's happened?

What's happened?

- ▶ Dissemination events

What's happened?

- ▶ Dissemination events
- ▶ to technical, non-technical and management audiences

What's happened?

- ▶ Dissemination events
 - ▶ to technical, non-technical and management audiences
 - ▶ SHA's, CETL audiences, conferences

What's happened?

- ▶ Dissemination events
 - ▶ to technical, non-technical and management audiences
 - ▶ SHA's, CETL audiences, conferences
- ▶ Several Shibboleth services set up

What's happened?

- ▶ Dissemination events
 - ▶ to technical, non-technical and management audiences
 - ▶ SHA's, CETL audiences, conferences
- ▶ Several Shibboleth services set up
 - ▶ Newcastle, Durham and other sites

What's happened?

- ▶ Dissemination events
 - ▶ to technical, non-technical and management audiences
 - ▶ SHA's, CETL audiences, conferences
- ▶ Several Shibboleth services set up
 - ▶ Newcastle, Durham and other sites
 - ▶ Northumbria left for strategic reasons

What's happened?

- ▶ Dissemination events
 - ▶ to technical, non-technical and management audiences
 - ▶ SHA's, CETL audiences, conferences
- ▶ Several Shibboleth services set up
 - ▶ Newcastle, Durham and other sites
- ▶ Northumbria left for strategic reasons
- ▶ Have recently come back to Shibboleth

What's happened?

- ▶ Dissemination events
 - ▶ to technical, non-technical and management audiences
 - ▶ SHA's, CETL audiences, conferences
- ▶ Several Shibboleth services set up
 - ▶ Newcastle, Durham and other sites
 - ▶ Northumbria left for strategic reasons
 - ▶ Have recently come back to Shibboleth
- ▶ Good relationship with JISC

Related projects

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
- ▶ ePortfolios, moving transcript information between institutions

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
- ▶ ePortfolios, moving transcript information between institutions
- ▶ www.epics.ac.uk - 1yr, 300k

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
- ▶ ePortfolios, moving transcript information between institutions
- ▶ www.epics.ac.uk - 1yr, 300k
- ▶ CETL4HealthNE - same 5 universities, with SHA and PCT

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
 - ▶ ePortfolios, moving transcript information between institutions
 - ▶ www.epics.ac.uk - 1yr, 300k
- ▶ CETL4HealthNE - same 5 universities, with SHA and PCT
 - ▶ 9,000 students (Medics, Dentists, Nurses, Radiographers, Pharmacists, many more)

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
 - ▶ ePortfolios, moving transcript information between institutions
 - ▶ www.epics.ac.uk - 1yr, 300k
- ▶ CETL4HealthNE - same 5 universities, with SHA and PCT
 - ▶ 9,000 students (Medics, Dentists, Nurses, Radiographers, Pharmacists, many more)
 - ▶ www.cetl4healthne.ac.uk - 5 yrs, 4.5 million

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
 - ▶ ePortfolios, moving transcript information between institutions
 - ▶ www.epics.ac.uk - 1yr, 300k
- ▶ CETL4HealthNE - same 5 universities, with SHA and PCT
 - ▶ 9,000 students (Medics, Dentists, Nurses, Radiographers, Pharmacists, many more)
 - ▶ www.cetl4healthne.ac.uk - 5 yrs, 4.5 million

Related projects

- ▶ EPICS - 5 North East universities, 3 FE colleges
 - ▶ ePortfolios, moving transcript information between institutions
 - ▶ www.epics.ac.uk - 1yr, 300k
- ▶ CETL4HealthNE - same 5 universities, with SHA and PCT
 - ▶ 9,000 students (Medics, Dentists, Nurses, Radiographers, Pharmacists, many more)
 - ▶ www.cetl4healthne.ac.uk - 5 yrs, 4.5 million
- ▶ Both require authenticated and authorised access to resources

Problems...

Problems...

- ▶ Certificate problems

Problems...

- ▶ Certificate problems
- ▶ Attribute release policies

Problems...

- ▶ Certificate problems
- ▶ Attribute release policies
- ▶ need to be agreed within federation

Problems...

- ▶ Certificate problems
- ▶ Attribute release policies
- ▶ need to be agreed within federation

Problems...

- ▶ Certificate problems
- ▶ Attribute release policies
- ▶ need to be agreed within federation
- ▶ Not rocket science to install Shibboleth

Problems...

- ▶ Certificate problems
- ▶ Attribute release policies
- ▶ need to be agreed within federation

- ▶ Not rocket science to install Shibboleth
- ▶ but beyond some institutions

Problems...

- ▶ Certificate problems
- ▶ Attribute release policies
- ▶ need to be agreed within federation

- ▶ Not rocket science to install Shibboleth
- ▶ but beyond some institutions
- ▶ hence hosting

Systems using Shib/CAS

(or about to)

Systems using Shib/CAS (or about to)

The screenshot shows the MBBS Learning Support Environment interface. At the top, there's a navigation bar with links for Home, Timetable, Course Materials, Portfolio, Assessment, Course Info, Base Units, Communications, Student Voice, and Links. It also shows a message: "you are logged in as test student (stage 1)" and links for "log out", "search", "feedback", "preferences", "help", and "font size too small?".

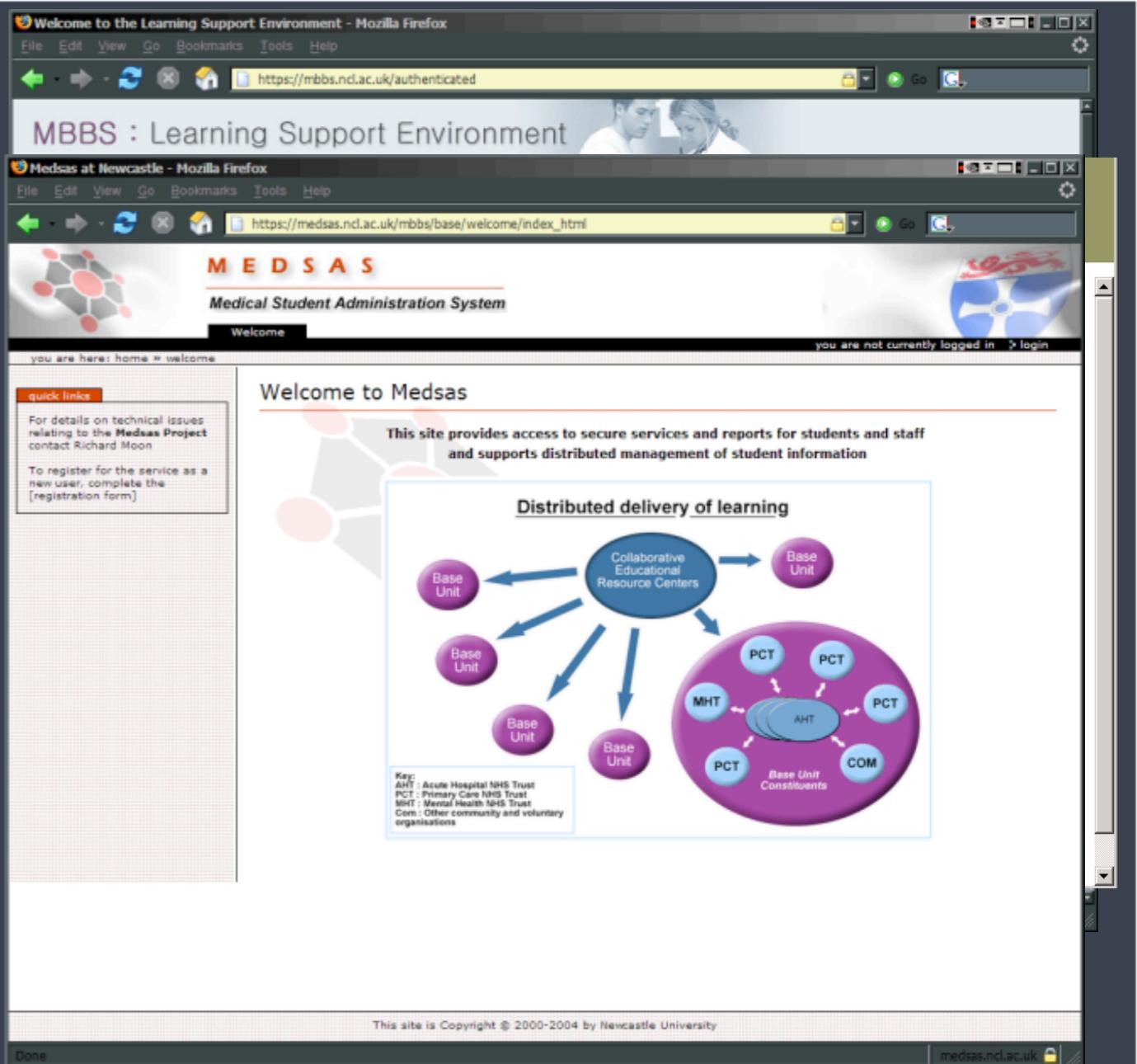
The main content area is divided into several sections:

- My Information**: Tasks section showing "Forms to complete": Stage 1 Sem 2: CRRM 2 - Renal and Respiratory (OVERDUE 450 days), Stage 1 Sem 2: CRRM 2 - Renal and Respiratory (OVERDUE 85 days), and Stage 1 Sem 2: Personal and Professional Development 2 (OVERDUE 450 days). A "More" link is present.
- To do list**: Literature review of secondary prev..., Book next meeting ASAP, Reading, Arrange to attend an extra outpatient..., Give my new address to MSO, more..., and a "More" link.
- Today's Timetable**: You have no timetable events today. A "More...." link is present.
- Course Materials**: Study Guides / Handbooks (Cardiovascular, Respiratory & Renal Medicine, Life Cycle, Medicine in the Community) and Resources (links to download files).
- Stage Information**: News and Announcements (Closure of Faculty Undergraduate Office - 7 April 2006 [Fri Mar 24, 2006], Medical School Newsletter [Thu Mar 23, 2006]), Recently uploaded resources (Study guide resources, Assessment resources), and a "More" link for news.

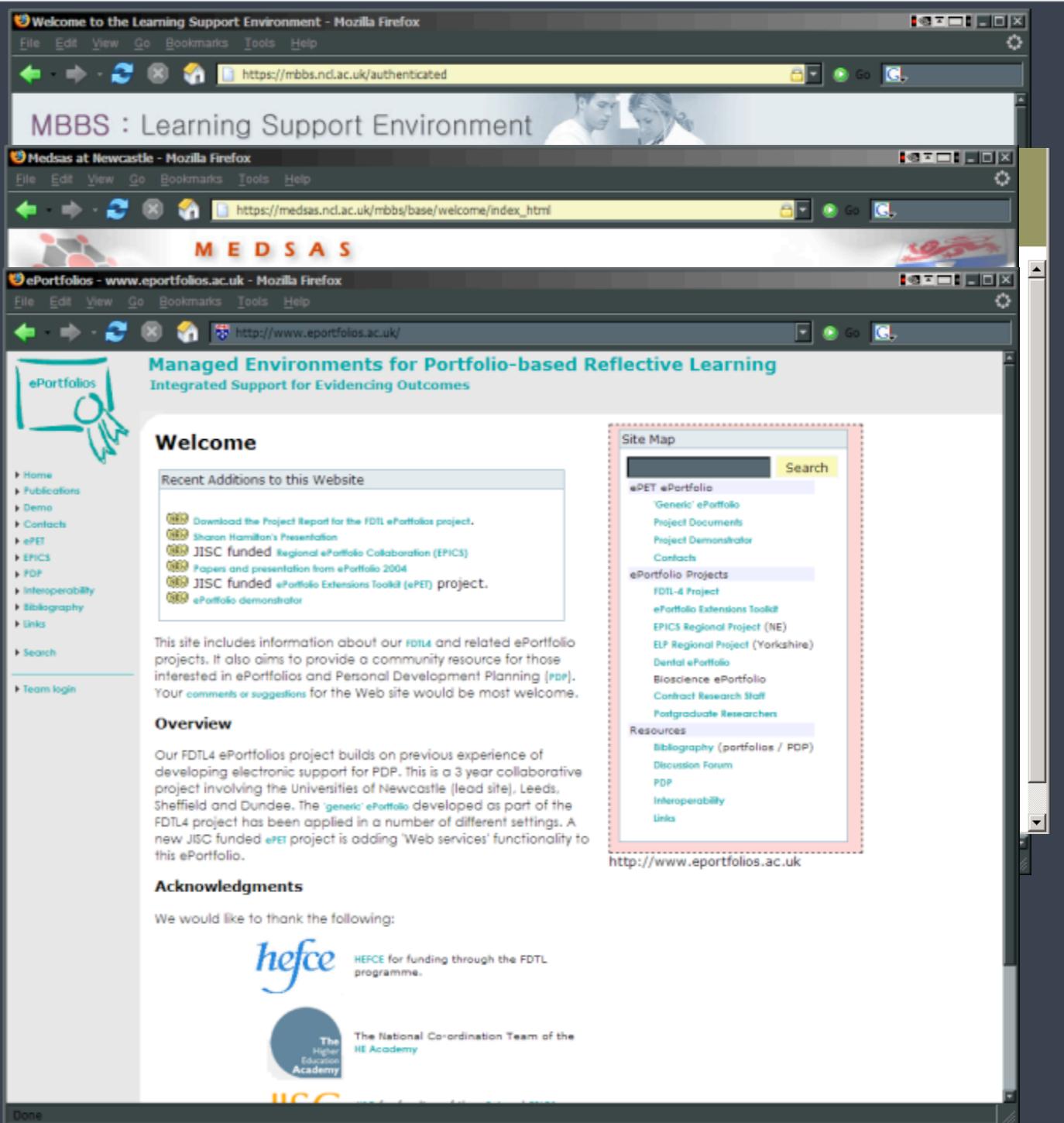
Systems using Shib/CAS (or about to)

The screenshot shows a Mozilla Firefox browser window displaying the 'MBBS : Learning Support Environment' website at <https://mbbs.ncl.ac.uk/authenticated>. The page features a header with the 'bruno' logo and navigation links for Home, Help, Login, and Developer Copy. Below the header, there are two tabs: 'Welcome to Bruno' and 'IAMSECT Project Info'. A sidebar on the left titled 'Links' includes a section for 'duo' with a thumbnail image of Durham Cathedral. The main content area contains several modules: 'Welcome to Bruno', 'Login Here', 'Acceptable Usage', 'Who's Online Module', and 'Weather across Campus'. The 'Who's Online Module' shows 'Usage for Mar-10-2005 15:52:51.935' and 'Total users in last minute 1'. The 'Weather across Campus' section displays live images and five-day forecasts for Durham and Queen's Campus, Stockton.

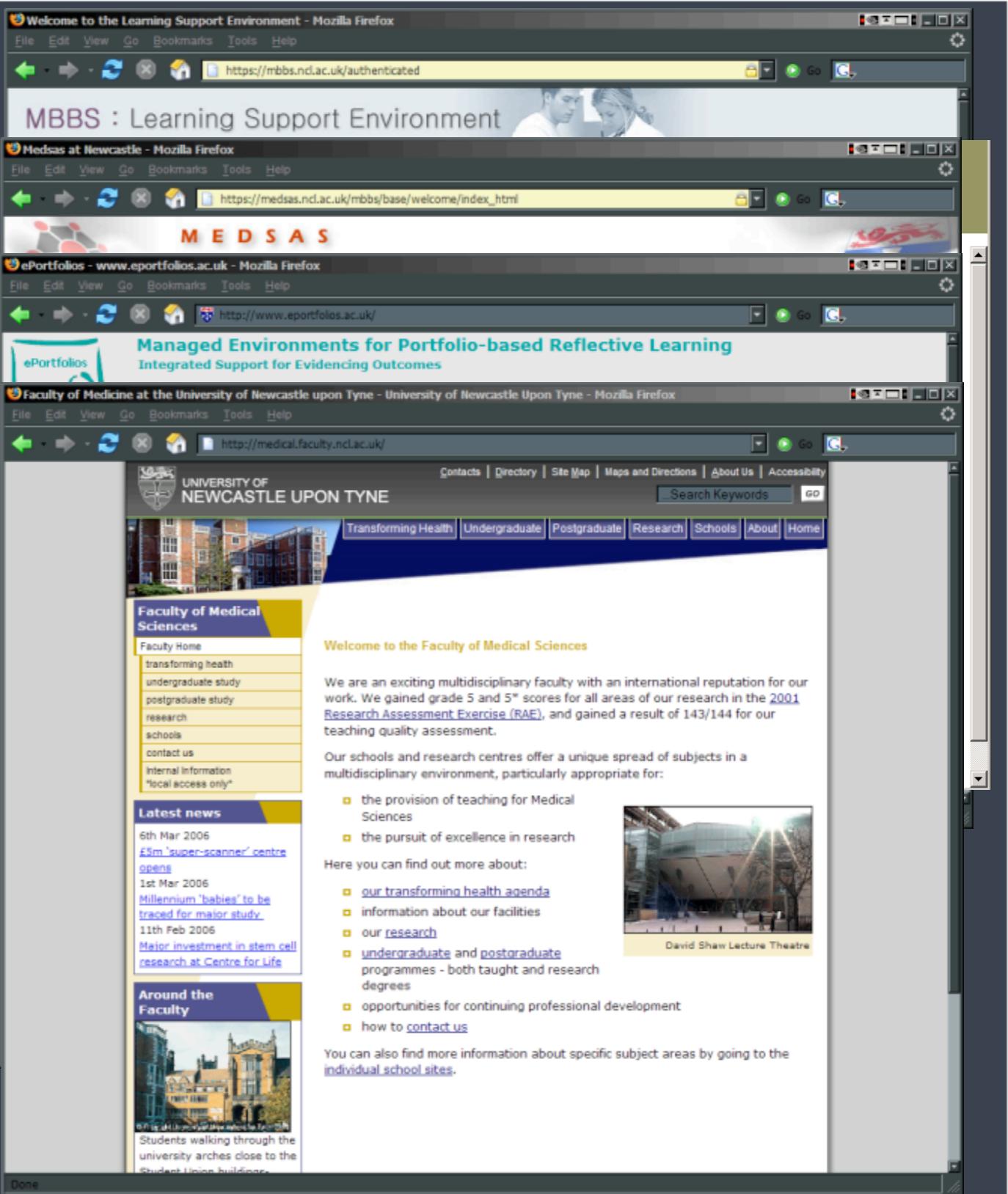
Systems using Shib/CAS (or about to)



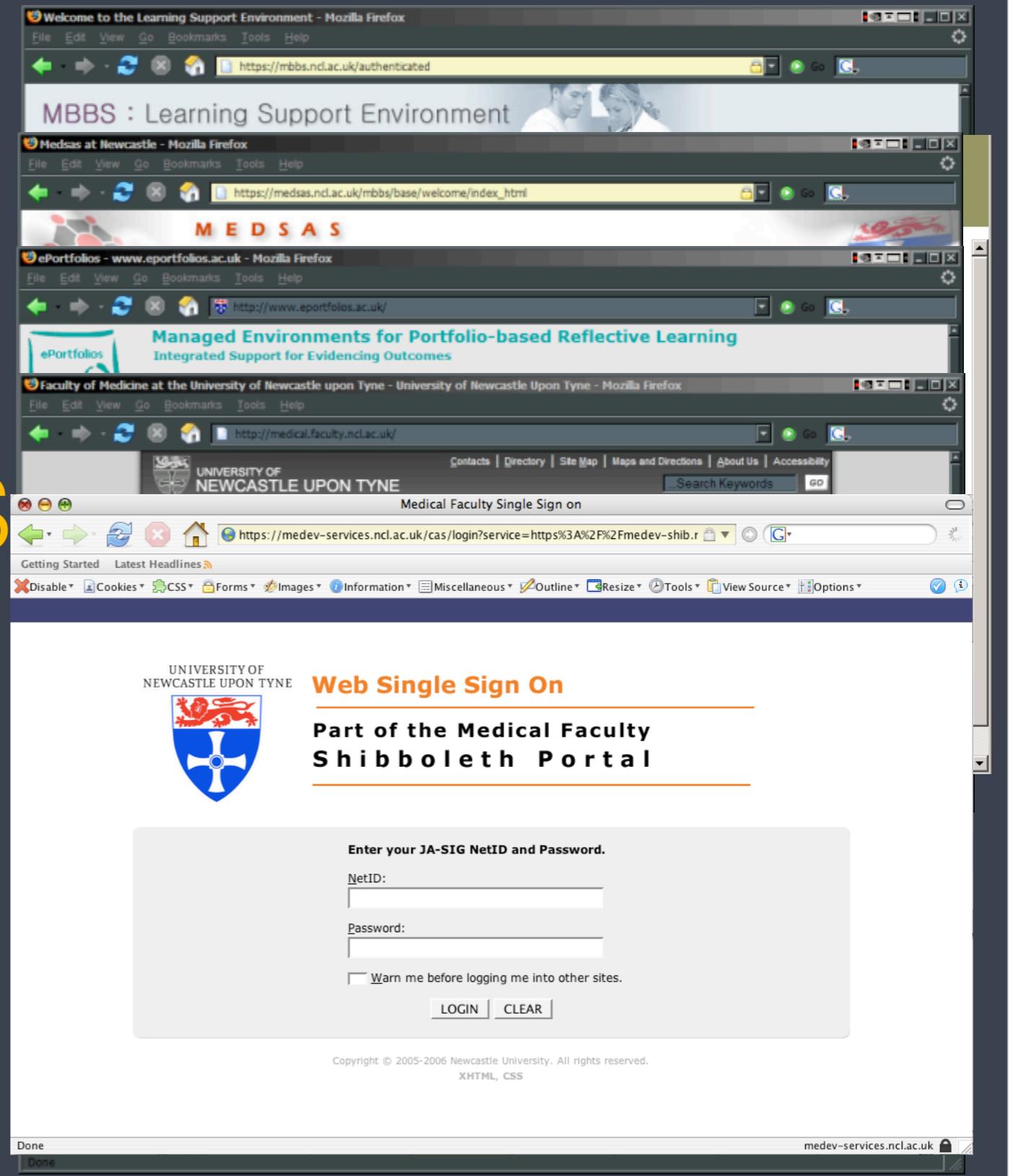
Systems using Shib/CAS (or about to)



Systems using Shib/CAS (or about to)



Systems using Shib/CAS (or about to)



CAS?

CAS?

- ▶ Central Authentication Service - Yale

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
- ▶ Start with Shibboleth, if that fails...

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
- ▶ Start with Shibboleth, if that fails...
- ▶ Try Active Directory lookup (local institution), if that fails ...

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
- ▶ Start with Shibboleth, if that fails...
- ▶ Try Active Directory lookup (local institution), if that fails ...
- ▶ Try LDAP (local to FMSC), if that fails

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
- ▶ Start with Shibboleth, if that fails...
- ▶ Try Active Directory lookup (local institution), if that fails ...
- ▶ Try LDAP (local to FMSC), if that fails
- ▶ MySQL (last resort)

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
- ▶ Start with Shibboleth, if that fails...
- ▶ Try Active Directory lookup (local institution), if that fails ...
- ▶ Try LDAP (local to FMSC), if that fails
- ▶ MySQL (last resort)

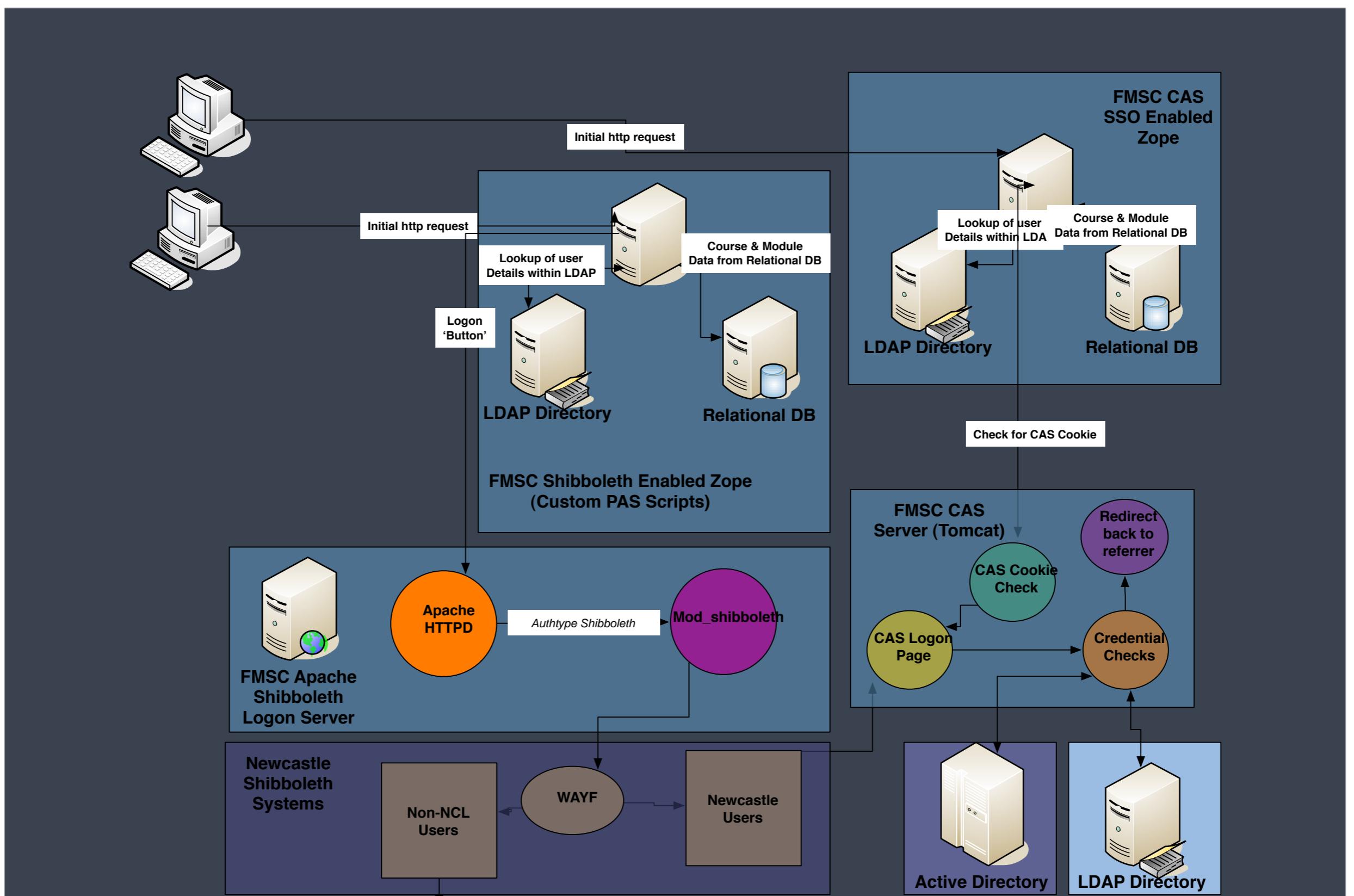
CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
- ▶ Start with Shibboleth, if that fails...
- ▶ Try Active Directory lookup (local institution), if that fails ...
- ▶ Try LDAP (local to FMSC), if that fails
- ▶ MySQL (last resort)

- ▶ Why?

CAS?

- ▶ Central Authentication Service - Yale
- ▶ Allows a cascade of authentication
 - ▶ Start with Shibboleth, if that fails...
 - ▶ Try Active Directory lookup (local institution), if that fails ...
 - ▶ Try LDAP (local to FMSC), if that fails
 - ▶ MySQL (last resort)
- ▶ Why?
 - ▶ Exceptional flexibility, temporary logins etc



What's next

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO
- ▶ this will include some HE Academy sites

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO
 - ▶ this will include some HE Academy sites
- ▶ Masters in Clinical Education programme

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO
 - ▶ this will include some HE Academy sites
- ▶ Masters in Clinical Education programme
- ▶ JISC DeL2 call

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO
 - ▶ this will include some HE Academy sites
- ▶ Masters in Clinical Education programme
- ▶ JISC DeL2 call
- ▶ Additional work with NHS in the North East

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO
 - ▶ this will include some HE Academy sites
- ▶ Masters in Clinical Education programme
- ▶ JISC DeL2 call
- ▶ Additional work with NHS in the North East

What's next

- ▶ Equipping many systems at FMSC with CAS-Shib SSO
 - ▶ this will include some HE Academy sites
- ▶ Masters in Clinical Education programme
- ▶ JISC DeL2 call
- ▶ Additional work with NHS in the North East
- ▶ Dissemination at events like this!

Thanks to IAMSECT Team

- ▶ Janet Wheeler
- ▶ Caleb Racey
- ▶ Jon Dowland
- ▶ John Snowdon
- ▶ Megan Quentin-Baxter
- ▶ Malcolm Murray