Cisco a moderné školstvo

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Agenda

- Cisco

- NetAcad

- SSDN - Glow

Cisco—The Technology Innovator

- $30+B revenue world wide

- 50 000+ employees

- $4 billion R&D investment, annually

- Over 16,000 engineers working in more than 1110 labs worldwide

- 110+ acquisitions to quickly enter new markets and add talent

- More than 2000 patents have been issued to Cisco inventors

Development

Acquisitions

Recent Innovations

- AON—Application-Oriented Networking
- CRS-1 Carrier Routing System
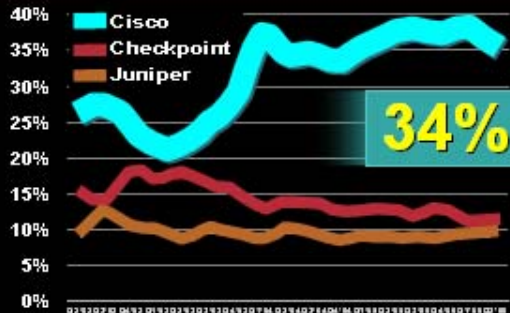- IOS XR—self-defending, self-healing operating system software

Security
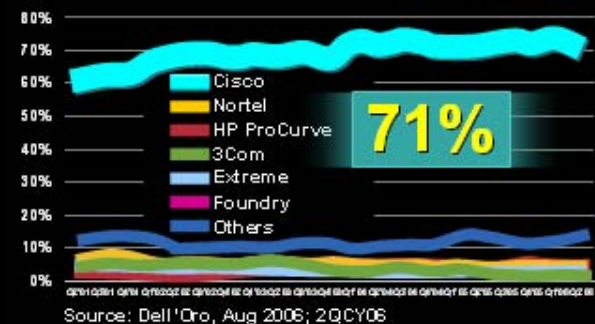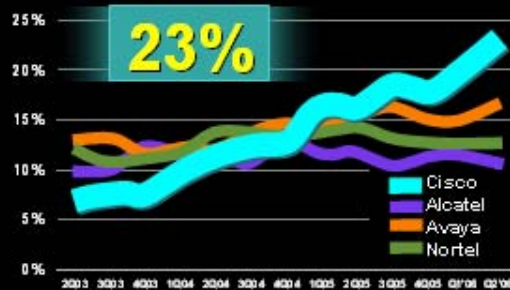Cisco, Checkpoint, Juniper — **34%**
Source: Synergy, Aug 2006, 2QCY06

Digital Video — **42%**
MOT, SA
Source: Competitor Financial Statements, SA estimates for 2QCY06

Switching… Modular / Fixed — **71%**
Cisco, Nortel, HP ProCurve, 3Com, Extreme, Foundry, Others
Source: Dell'Oro, Aug 2006; 2QCY06

Enterprise Voice — **23%**
Cisco, Alcatel, Avaya, Nortel
Source: Synergy Research Group, 2006; 2QCY06

Wireless… Local Area Networks — **59%**
Cisco, Symbol, ARUBA
Source: Dell'Oro, Aug 2006; 2QCY06

Storage… Area Networks — **23%**
Cisco, Brocade, McData/CNT
Source: Dell'Oro, Aug 2006; 2QCY06
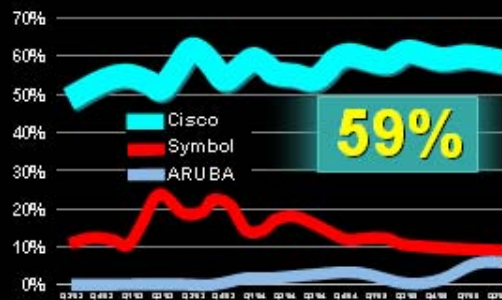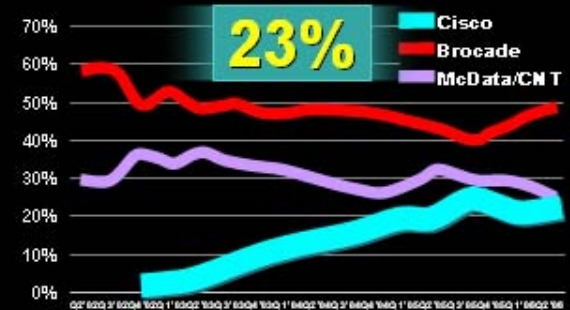
Routing… Edge / Core / Access — **68%**
Cisco, Juniper, Alcatel, Redback, Nortel
Source: Dell'Oro, Aug 2006; 2QCY06

Networked Home — **50%**
Linksys, D-Link, Netgear
Source: NPD, U.S. Retail July 2006
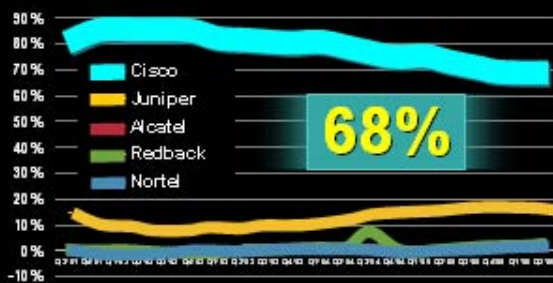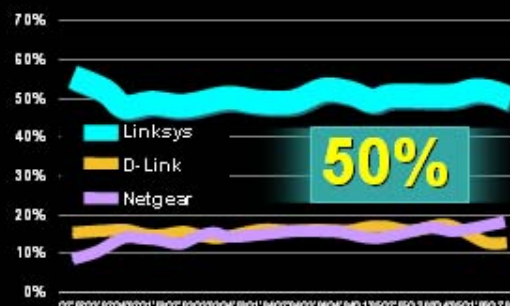
Market Share "And" Share of Wallet

NetAcad – Sieťový akademický program CISCO

Sieťový akademický program Cisco - NetAcad: Globálna pozícia – od roku 1997

Februar 2006

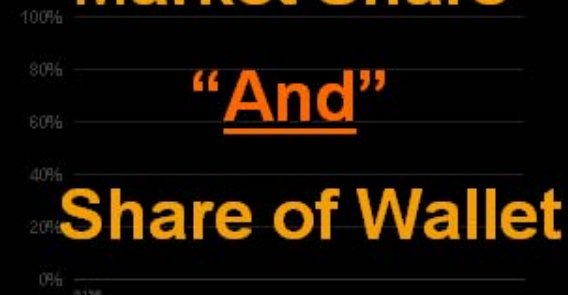**Počet krajín**
155 +

Počet študentov
1.9 Million +

Počet škôl zapojených do programu
11,000 +

Počet lektorov
32,000 +

Celkový počet testov
46 Million +

Jazykové verzie
9

NetAcad 2006 v číslach

Worldwide

11,000+	Academies
155	Countries/Territories
32,000	Instructors
1,900,629	Students Enrolled

EMEA

2,424	Academies
5,227	Instructors
118,564	Students Enrolled
83,147+	CCNA Graduates

CR/SR

100+	Academies
300+	Instructors
6,000+	Students Enrolled
2,000+	CCNA Graduates

Sieťový akademický program v SR

51 Academií

3600 študentov

152 Inštruktorov

SSDN – Scottish School Digital Network

SSDN Scottish School Digital Network

NGfL | National Grid for Learning

1998

THE SCOTTISH OFFICE

BACK

£62 MILLION TO PUT SCOTLAND IN THE FAST LANE OF THE INFORMATION SUPERHIGHWAY

Scottish Education received a £62 million hi-tech boost today when Scottish Education Minister Helen Liddell announced a package to help build the National Grid for Learning throughout Scotland over the next three years.

Mrs Liddell announced the funding together with the strategy document Implementing the National Grid for Learning in Scotland, during a live video-conference link with the Prime Minister.

Mrs Liddell was visiting Deans Community High School at the launch of West Lothian's £5 million CREATIS project - a scheme to provide schools, libraries and community centres in West Lothian with a communications infrastructure. During her visit Mrs Liddell took part in a live link-up with Scalpay School where the Prime Minister was launching the local learning network for the Western Isles.

Mrs Liddell said:

" The National Grid for Learning will transform education in Scotland. Building the Grid and training people to use it will ensure that schools, colleges and public libraries play a key role in the development of an information based society and fulfils yet another of the promises we made to the Scottish people. Today I am announcing the investment of £62m of pounds to help children throughout Scotland now and for generations to come.

"Local projects like CREATIS in West Lothian and the network in the Western Isles are the elements which will link-up to form the National Grid. Modern technology means that geographical remoteness is no obstacle in terms of gaining access to the widest possible and most up-to-date information sources available. Today, Scalpay School and Deans Community High School in Livingston demonstrated just how a small primary school in the Western Isles and a large secondary school in the Central Belt will have the same access to high quality material and international contacts.

"To further develop the Grid in Scotland I am today allocating £62 million to be made available to local authorities for projects which contribute to the extension and improvement of the Grid. To help guide that development I am also today publishing a strategy document, Implementing the National Grid for Learning in Scotland, which sets out the Scottish vision of how the Grid will evolve in Scotland and how the development will be based on partnership between Government, local authorities, libraries, teachers, parents and other agencies. Scotland has today moved closer to the creation of a knowledge based economy for the 21st century"

BACKGROUND

1. The National Grid for Learning (NGfL) is both:

· a development of high quality educational material which will be available on the Internet to schools, colleges and libraries, teachers, lecturers, pupils, students and other learners; and

The National Grid for Learning (NGfL) is both:

- **- a development of high quality educational material which will be available on the Internet to schools, colleges and libraries, teachers, lecturers, pupils, students and other learners; and**

- **- a programme for delivering the infrastructure of cable and networks, the hardware, the services and the training required to establish a modern, comprehensive information and communications technology system for all our schools, colleges and libraries.**

2001

All encompassing vision:

- **broadband to authorities**

- **broadband to schools**

- **intranet services**

- **content procurement**

- **links to public and commercial content providers**

December 2003

Scottish Schools Digital Network
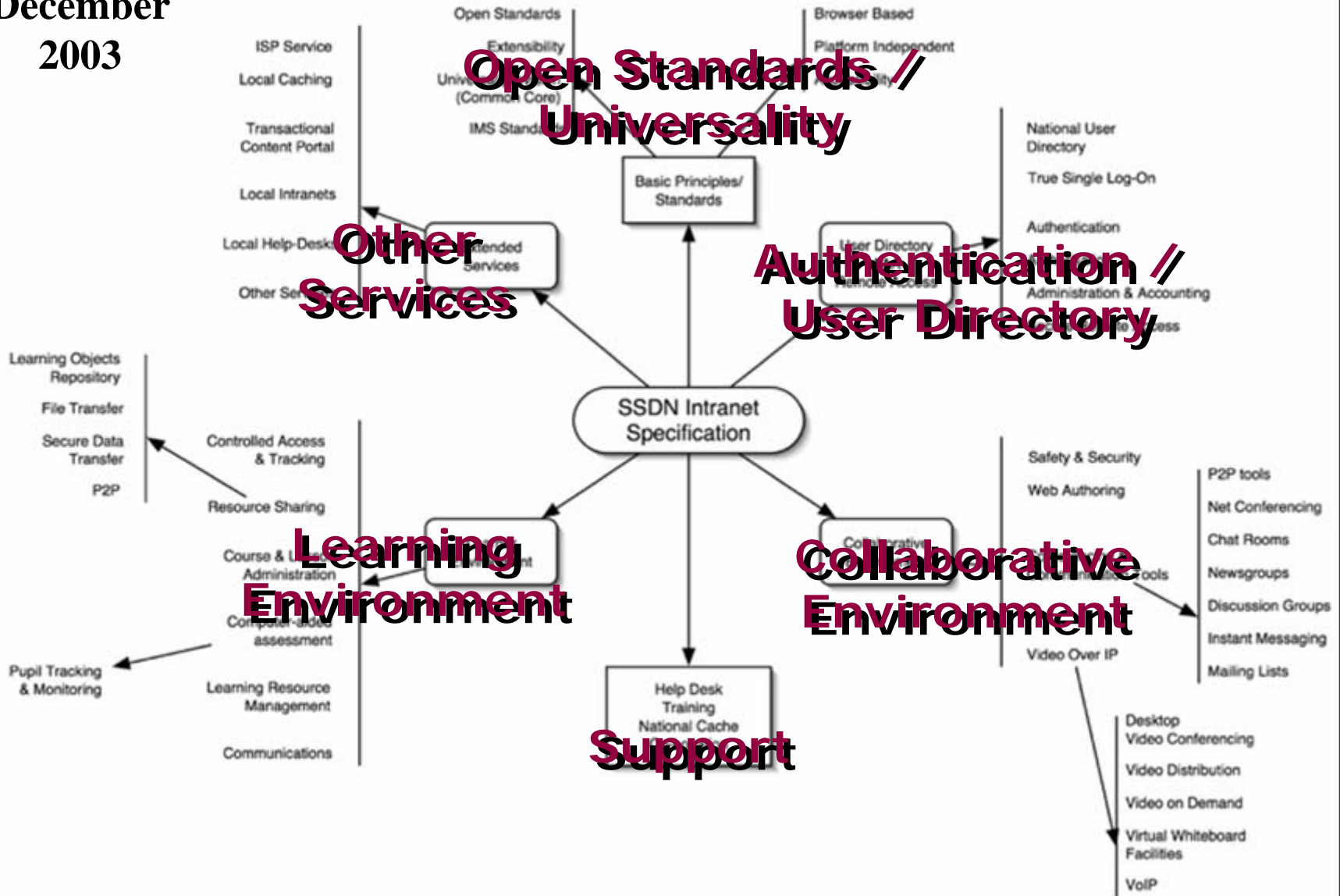
- Stakeholder-Led Specification

- Universal System: Accessible By All

- Open Standards

- Web-Delivered

- Extensible

- Platform Independent

SSDN Business Case
(version 1, 2001)

To serve the needs of.....

...PUPILS...

...to learn online, to research projects, to link up with their peers across Scotland and across the world and to access school and curricular resources

SSDN Business Case
(version 1, 2001)

To serve the needs of.....

...TEACHERS...

...to identify and collate content, courses and tools for their teaching, to share ideas and good practice with their colleagues elsewhere, to engage in online communities of interest, to track and monitor their pupils' progress, and to undertake necessary administrative functions

SSDN Business Case

(version 1, 2001)

To serve the needs of.....

...EDUCATION AUTHORITIES...

...to perform their school administration functions, to give their schools secure and filtered access to the internet, to make policy and guideline documents available to schools, to work in partnership with other local authorities, to exchange data as necessary with the Scottish Executive, SQA and commercial partners, and to establish online fora

SSDN Business Case
(version 1, 2001)

To serve the needs of.....

...SCOTTISH EXECUTIVE...

...LEARNING & TEACHING SCOTLAND...

...SCOTTISH QUALIFICATIONS AUTHORITY...

...HMIE...

...PARENTS...

SSDN
National Intranet

Content Delivery Infrastructure

Broadband Interconnect

Stakeholders

Pyramid (top to bottom):
- SEED
- LT Scotland
- 32 Local Authorities
- 3,000 Schools
- 53,000 Teachers
- 750,000 Pupils
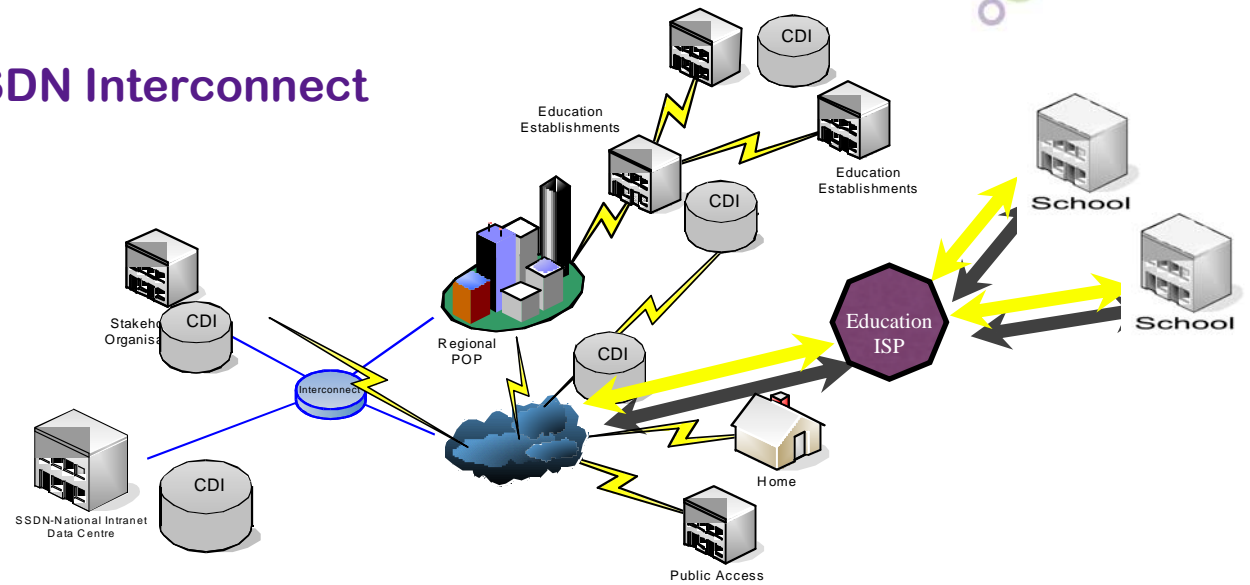- & Parents (up to 1.5 million users)
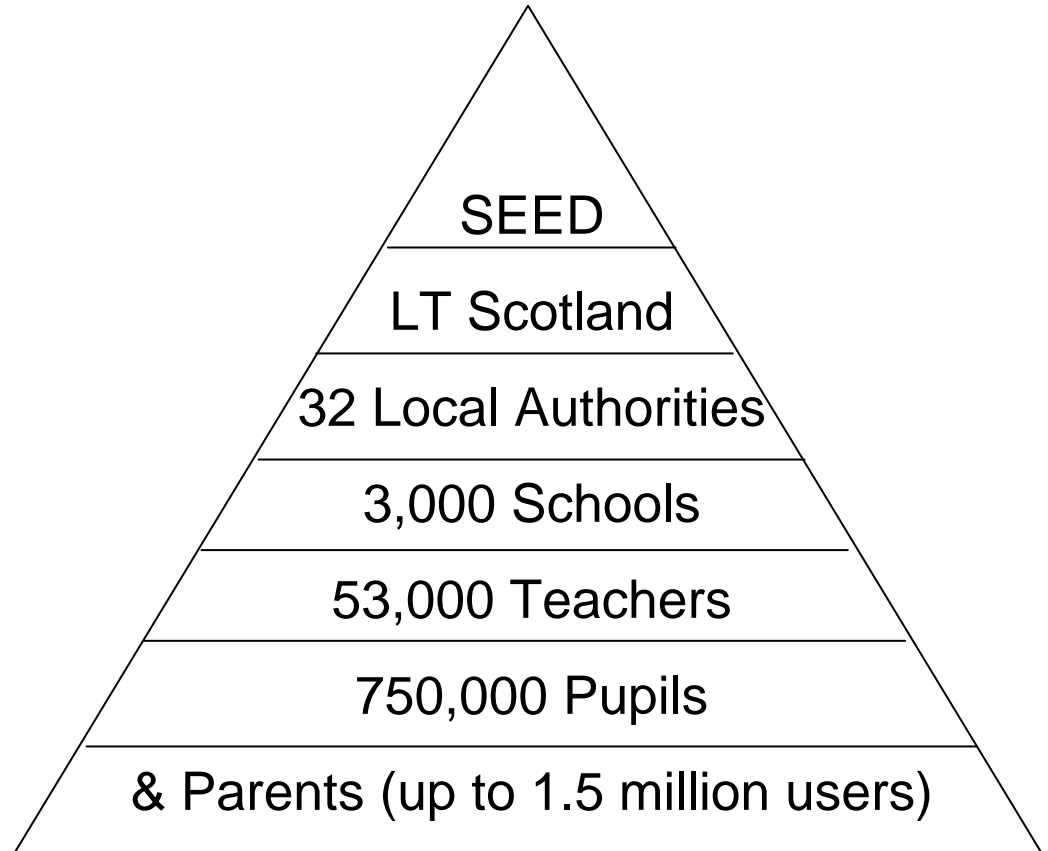
Interconnect Before SSDN

SSDN Interconnect

Glow

Content Delivery Infrastructure

SSDN BroadBand Interconnect

Contract between Scottish Executive and UKERNA (10GB 2006, 40GB2007)

To provide a broadband interconnect for each of Scotlands LAs (32) National Agencies (LTScotland-2, SQA-2 and SEEMIS

Additional connections now being installed - "Improvement Services Project" - 2 data centres

Internet Transit via SuperJANET

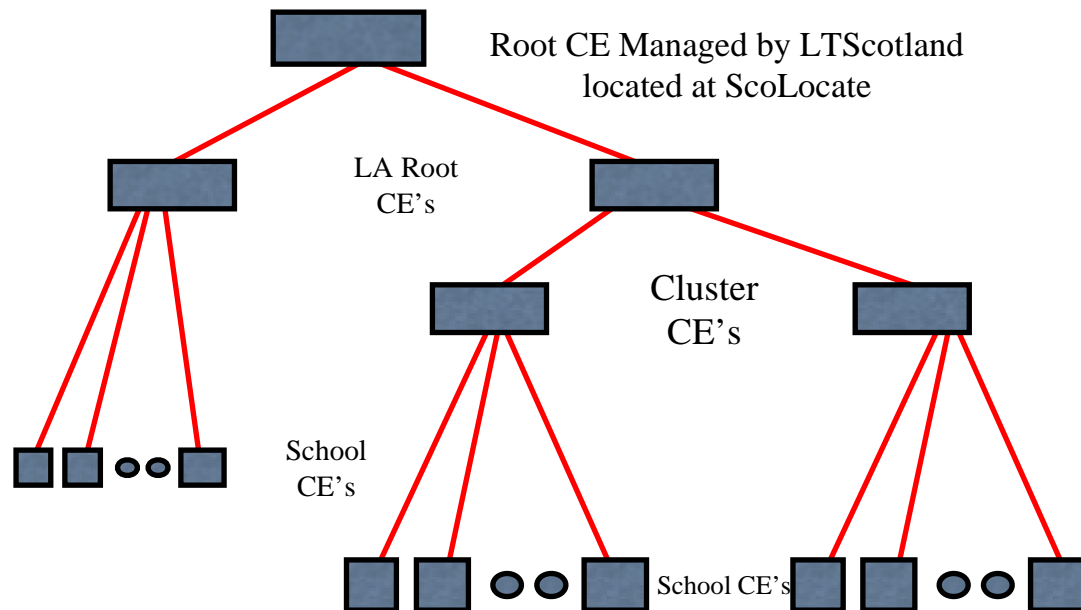# SSDN Interconnect

Primary provision for Education

Many LAs have used it to provide Internet access for other departments and Libraries.

Recent further expansion of use - Improvement Services Project.

SSDN - Content Delivery Infrastructure

SSDN - Content Delivery Infrastructure

Root CE Managed by LTScotland located at ScoLocate

LA Root CE's

Cluster CE's

School CE's

School CE's

SSDN - Content Delivery Infrastructure

Local Authority hierarchy of Web Caches

Integrated Content Pre-positioning

Content Channels

Audio and Video Broadcast

Technical work ongoing to interoperate with Glow

National Internet access filter service with Glow

SSDN - Content Delivery Infrastructure

Still being built and configured

SSDN – Scottish School Digital Network

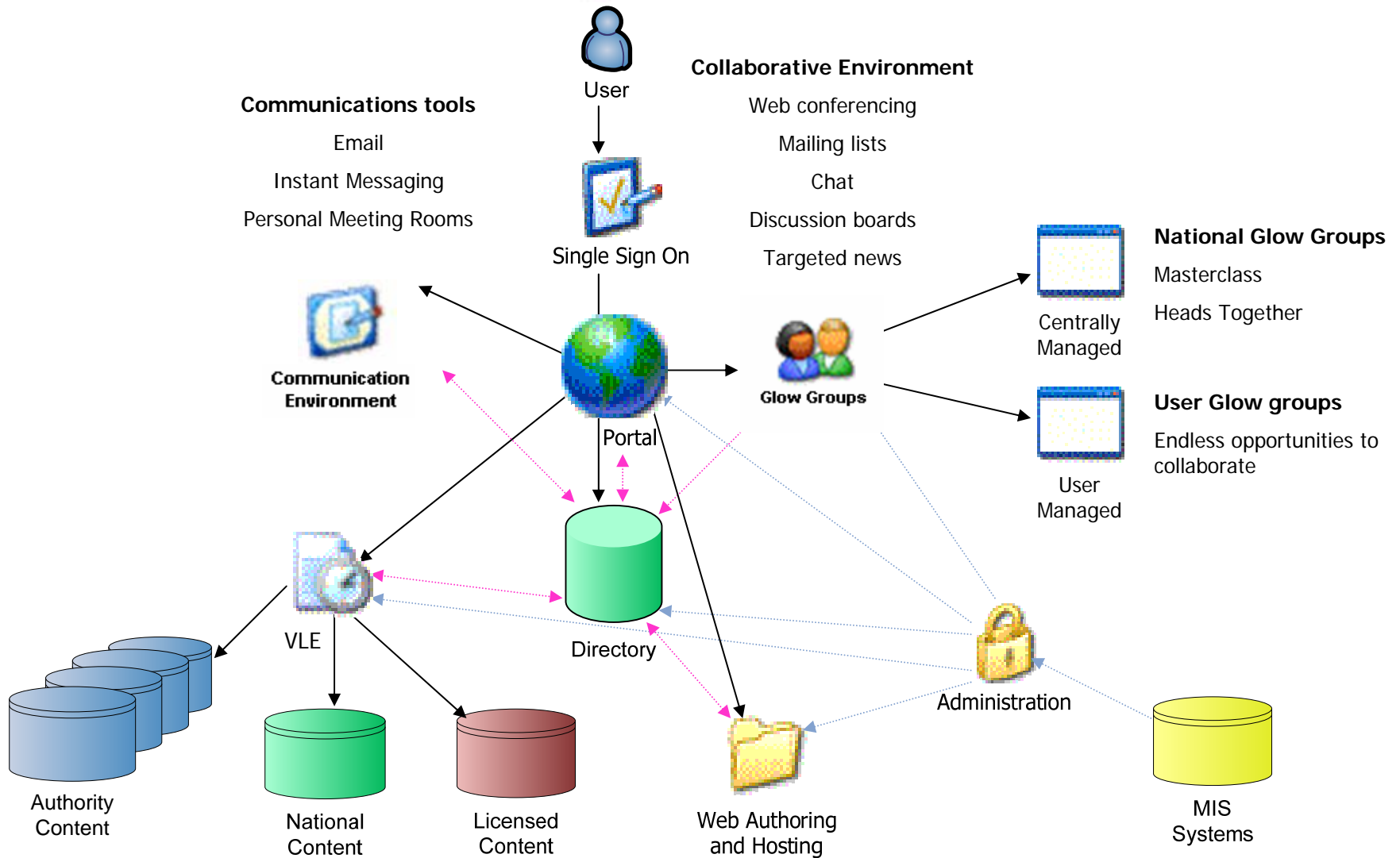
SSDN Scottish School Digital Network

A safe environment

for learning

for teaching

and for collaborating

Communications tools

Email

Instant Messaging

Personal Meeting Rooms

User

Single Sign On

Collaborative Environment

Web conferencing

Mailing lists

Chat

Discussion boards

Targeted news

Communication Environment

Portal

Glow Groups

National Glow Groups

Masterclass

Heads Together

Centrally Managed

User Glow groups

Endless opportunities to collaborate

User Managed

VLE

Directory

Administration

Authority Content

National Content

Licensed Content

Web Authoring and Hosting

MIS Systems

Glow Contract

- Sept 2005 - Scottish Executive Education Department (SEED) and RM

- 5 Year Programme, £37.5M

- Milestone Payments/Monthly Service Charge

- Services available free to users - mid 2007

- Most ambitious education project anywhere in the world

  - ✓ 1.5M users
  - ✓ Engagement with 32 Local Authorities, SQA & TEIs, LTS, HMIe, SEED, etc

- Glow brand launch at SETT '06

- Major Glow focus at Scottish Learning Festival – Sept 07

Piloting
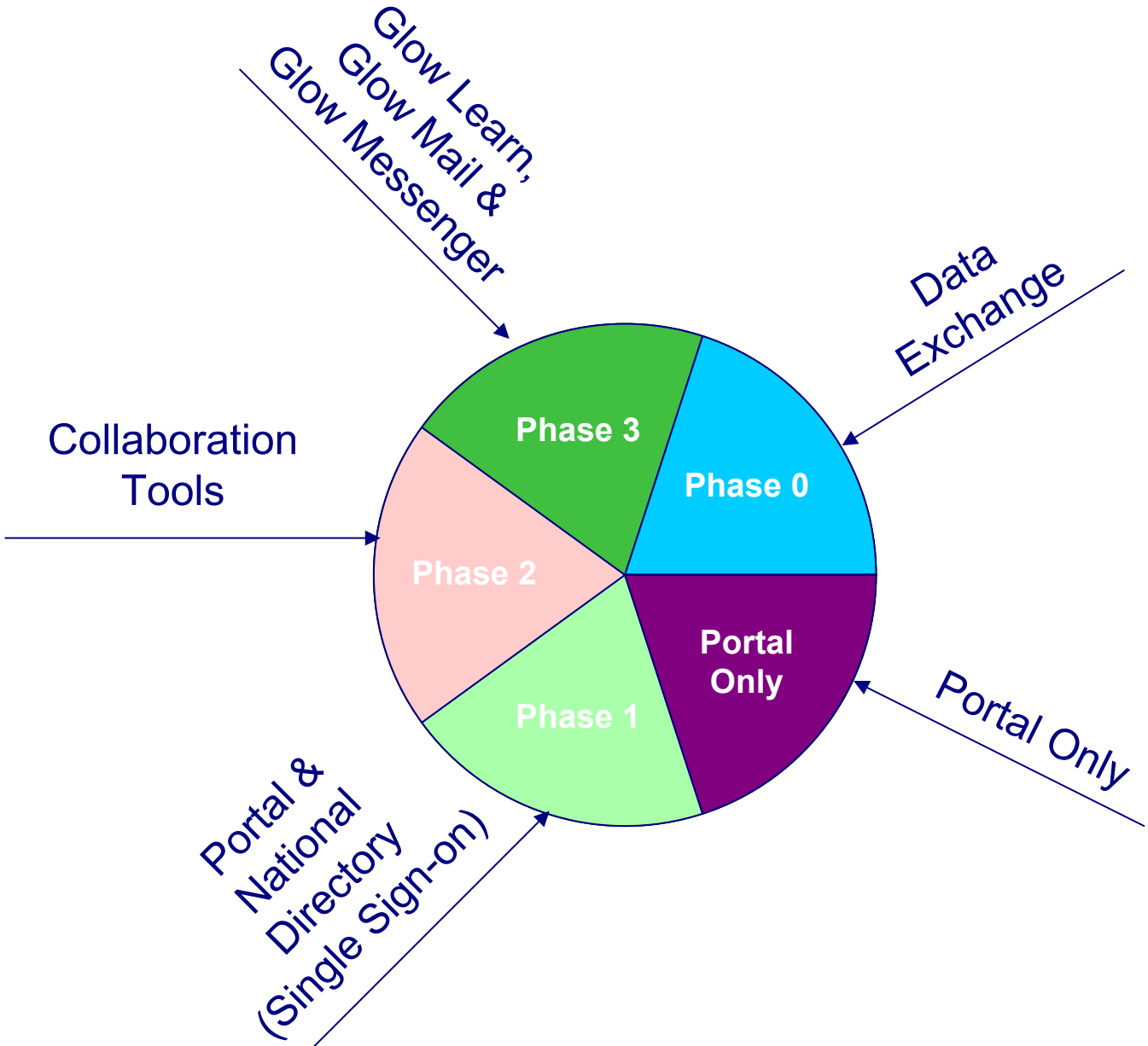
Piloting

- **Phase 0 (completed)   March 2006**

  - 28 out of 32 local authorities participated

- **Portal Only Pilot (completed)   Jun 2006**

  - 3 local authorities

  - first use by pupils, teachers and administrators

Piloting

- **Phase 1 Pilot (completed)** **December 2006**
  - 8 local authorities + 600 Mentors participated
  - Portal plus other available components tested

- **Phase 2 Pilot (completed)** **Mar - May 2007**
  - 14 local authorities + 600 mentors participated
  - Portal plus collaborative applications

- **Phase 3 Pilot** **May - June 2007**
  - 14 local authorities + 600 mentors
  - Portal plus collaborative apps plus VLE, Mail
  - Delivery pilot into first local authority (Dundee)

National Helpdesk

Service from November 2005

- Pilot service and facilities in Nov '05

- Helpdesk personnel mobilised early to assist LA and Stakeholders through consultation, pilot and deployment phases

- Helpdesk will be conduit for all Glow users

- Integration into existing RM Bellshill support operation

- Response, Progression and Escalation Glow processes development

glow

Robyn Davison

Staff Home

Learning and Teaching

Timetables

Pupils

Forthview

Forthview

Search for other Glow users   Sign Out

| Noticeboard | Calendar | Documents | Contacts | Glow Groups |

Noticeboard

Picture

News

Scottish Cup
by Vernon Butler   15/09/2006 16:56

Good luck to the school rugby team as they meet RHS, current Scottish Cup holders on

Done   Trusted sites

Glow includes:

- **a national directory and authentication system**

- **a national virtual learning environment (VLE)**

- **collaborative software applications**

- **support services**

It's the start of a long and challenging process!
Believed to be the largest system of its type.

Glow includes:

a national directory and authentication system

- designed to permit secure access to services by all categories of user
- 800,000 users to include:
    - school & authority staff
    - pupils (5-18)
    - support staff in schools
    - relevant authority staff
    - TEI staff and students
    - others as appropriate

single sign-on to all applications

Glow includes:

social software

- e-mail
- video conferencing & virtual whiteboards
- chat rooms
- video streaming
- instant messaging
- Presence
- mailing lists

Will be possible to integrate other applications in time (Web 2).

Glow includes:

a national virtual learning environment (VLE):

using the VLE, teachers will be able to:

- prepare, review & plan lesson material
- assign lessons & courses to individuals or classes
- create tests & tasks
- create mark books
- create & assign homework to groups or individuals
- manage coursework
- Import/export content packages (SCORM 2004)

Anytime anywhere access.

Glow includes:

support services

- engagement & consultation
- supporting local authorities

- A partnership between LTScotland & RM = SSDN team

- professional development for teacher
- technical support
- support to develop use
- dedicated teams

Questions
Thank you