Benefits of ICT for states and citizens

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➢ Healthcare
➢ Education
➢ Efficiency & services to citizens
Secure Foundation: Cisco Medical Grade Network Framework

- Allow Nurses and Doctors to Administer Patient Care from Anyplace, Anytime Through Secure Wireless Capabilities
- Enable Patients and Guests to Stay Connected Through Secure Connectivity
- Enable an Interoperable Healthcare Ecosystem Through a Flexible and Scalable Network Framework
- Bring Connectivity to the Hospital’s Infrastructure Through Automation of Biomed Device Provisioning
- Meet Government and Industry Mandates Through A Regulatory Compliant Architecture (ex: PCI)
Three Solution Portfolios.
One Secure Foundation.

- **Care-at-a-Distance** and Clinical Workflow
- Compliance and **Medical Device Management**
- Continuing **Health Education and Collaboration**

Cisco Medical-Grade Network
Context-Aware Asset Visibility Applications

Medical equipment management, maintenance & optimized utilization

Simplify Preventive Maintenance Through **Hospital-wide, Real-Time Visibility of Equipment Location and Status**
Solution:
Cisco HealthPresence™

The Cisco HealthPresence™ Solution Helps Extend the Reach of Healthcare Delivery, Simplify Healthcare Communications, and Connect Patients with Medical Providers and Specialists to Enable Examinations in a Convenient and Efficient Manner

- Increased convenience and access to healthcare for patients
- Optimizes the use of scarce expert resources while containing costs and offering a live, “face-to-face visit” experience
- Offers the ability to augment and optimize the capacity and reach of care delivery systems in a patient-friendly and convenient way
Solution:
Cisco Clinical Presence System (CPS)

Cisco CPS Connects Clinical Staff and Patients for Specialist Consults with a Self-Contained Telemedicine Video Solution with Flexibility of Medical Devices for Data

- Real-time, “in-person” collaboration between clinicians, patients and specialists
- Make clinical decisions faster, improving patient care and outcomes
- Designed specifically for the clinical environment
Case Study: Project Netcare (Switzerland)

The vision
Positioning the pharmacy as a future point-of-care, offering an alternative to the classic doctors-visit, modifing the business processes and opening new way to treat.

Challenges
- Pharmasuisse had the idea to find new solution to improve the patient approach and simplify their treatment.
- The first trial were made internal with low-level video from LiveSize but the quality was poor and the patient didn’t have the feeling to be on the right place.

Results
- Cisco's intervention changed the game: We put two EX90 into pharmacies, trained the people and connected them to the medical-center using our internal servers.
- Roll out has been done to 200 sites.
- Next step is to implement medical devices to measure vital-signs and to implement additional clinical HD-cameras, following our HealthPresence-strategy
Moving on to Education
Cisco in Education
Cisco Networking Academy—the world’s largest classroom

% of Global Total
Europe 17%
APAC 17%
U.S. and Canada 17%
Latin America 7%
Central and Eastern Europe 7%
Greater China 7%
Middle East 7%
Africa 5%
Russia and CIS 5%
Japan 1%

% of Worldwide Total as of January 31, 2011 100%

Students by Region (1,000,000 Students)

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Cisco in Education
Cisco Networking Academy – a globally diverse community

165 Countries

1M Students Per Year

4M Students Since Inception
Cisco in Education
Cisco Networking Academy leads in innovation

Simulation-Based Learning
Gaming in Education
Social Media as a Learning Tool
Online Assessments
The Learner’s World Has Changed
A generation ago…
The Learners’ Digital Nervous System
How students access information today
In the next five years, the education delivery system will change more than it has in the last 30 years.
Schools needs and challenges
Preparing students for success in global economy

Student engagement

Reaching new learners

Professional development and teacher training

College and workforce readiness

Reducing costs and sharing scarce resources

Communication with faculty, staff, students and parents

Creating rich, homogeneous learning environments

Network and cyber security
The Connected Learning Experience

Virtual and bricks-and-mortar

Wired and wireless

Content-intensive

Video-intensive

Collaborative Platforms

Location Independent

Device Independent

One teacher, many classrooms, global delivery
Higher Education Needs and Challenges
Top Colleges and Universities Around the Globe Depend on Cisco
Transforming Today’s Schools:
Cisco Services for Education

Strategic Planning
Comprehensive Design
Quick and Efficient Deployment

• Improve the learning experience
  • Streamline processes
  • Contain costs

• Expand collaboration and research
  • Optimize existing resources
  • Provide scalable, effective support

Available from Certified Partners or Cisco Direct
www.cisco.com/go/services/edu
➤ Healthcare
➤ Education
➤ Efficiency & services to citizens
ICT as a ‘value centre’

**ICT is 3% of total Public Sector spend**

Reduce cost on these 3%?

or

Optimize the 97%?

* Source: UK Public Sector ICT Overview & Forecast – 2014/15, Nov 09, Kable
Overall approach to efficiency

- Develop an Efficient Workplace ...
- ... and use Energy and Resources Efficiently
- Develop a Modern, Flexible Workforce
- Deliver ICT that Supports Efficiency

ORGANIZATIONAL AND TECHNICAL STRATEGIES
The importance of ‘cultural and process change’

Culture
‘new ways of working’

Process
‘collaboration-enabled’

ICT
‘driving and enabling change’
Three organisational journeys ... 

1. **Workforce Journey**
2. **Workplace Journey**
3. **Journey to Shared Services ICT**
The Workforce Journey
‘The Workforce Journey’

- Defined: in the workforce strategy
- Purpose: to create a ‘modern flexible workforce’ of ‘location-independent workers’

Recommendation 1: Enable location-independent working
Recommendation 2: Unify workforce communications
Recommendation 3: Implement web-based collaboration
Recommendation 4: Exploit video
A ‘typical’ virtual team meeting – the benefits

### Environmental Impacts

- **Car Miles Saved:**
  - 15,853 miles
  - 11,000kg CO2
  - 24 Lord’s Cricket Grounds of tree planting

### Business Benefits

- **Cost Saved:**
  - £4,751 (accommodation, food, hotel, parking)

- **Productive Time Saved:**
  - 19,261 minutes
  - 40 days

- **‘Soft’ Savings:**
  - Positive response from the team on ‘work / life’ balance
The Workplace Journey
The Workplace Journey

- Defined: in the *estates and resources strategies*

- Purpose: to *deliver the savings in accommodation costs* afforded by creation of the location-independent workforce

Recommendation 5
*Design offices for location-independent working*

Recommendation 6
*Implement smart connected building management*

Recommendation 7
*Introduce energy management*
‘Working beyond Walls’

The Government workplace as an agent for change

• OGC created the Working without Walls paper; updated in 2008 to create Working beyond Walls

• Important reference for the development of new work styles in the UK Public Sector

• Cites innovative building design and the use of ICT as key facilitators

Journey to Shared ICT Services
‘The Journey to Shared Services ICT’

• Defined: in the *ICT Strategy*

• Two main purposes:
  1) to define and create a *low cost ‘ICT service delivery platform’*
  2) provide ICT that will support *cost reduction across the business*

Recommendation 8
*Consolidate and virtualise data centres*

Recommendation 9
*Build and life-cycle manage the borderless network*

Recommendation 10
*Migrate to virtual desktop*
‘The ICT Service Delivery Platform’

- Data Centre
- Service Delivery Point

- Borderless Network
- Service Delivery Network

- Virtual Desktop
  - Cost-reduced end point

Information & Service Assurance
When Governments move from conventional (on premises) to Cloud!
Summarizing ...
| 1. Enable location-independent working |
| 2. Unify workforce communications |
| 3. Implement web-based collaboration |
| 4. Exploit video |
| 5. Design offices for location-independent working |
| 6. Implement smart connected building management |
| 7. Introduce energy management |
| 8. Consolidate and virtualise data centres |
| 9. Build and Lifecycle-manage the borderless network |
| 10. Migrate to virtual desktop |

**The Workforce Journey**

**The Workplace Journey**

**The Journey to Shared Services ICT**
Cost saving v ease of implementation

Cost Saving

High

1. Infrastructure for Location Independent Working

10. Migrate to Virtual Desktop

8. Consolidate Data Centres, Virtualise Data Centre Infrastructure

4. Exploit Business Video

2. Unify Workforce Communications

3. Implement Web-based Collaboration

9. Build & Lifecycle-Manage the Borderless Network

7. Introduce Energy Management

6. Implement Smart Connected Building Management

5. Design Offices for Location Independent Working

Ease of Implementation

High

Normal

Easy

Normal
➢ Healthcare

➢ Education

➢ Efficiency & services to citizens

➢ …
Hvala lijepo