

Challenges for Information Security

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FH St. Pölten, Jänner 2013



Sec_rit_y is not complete without U !



AGENDA

OMV GROUP, ORGANIZATION





Business areas within OMV Group



Refining & Marketing



Exploration & Production



Gas & Power

Global Solutions an integrated
Competence Center within OMV



IT

} Business Unit IT



Financial Services

} Business Unit Finance



HR Administration



HR Consulting



Facility Management

} Business Unit Business Support

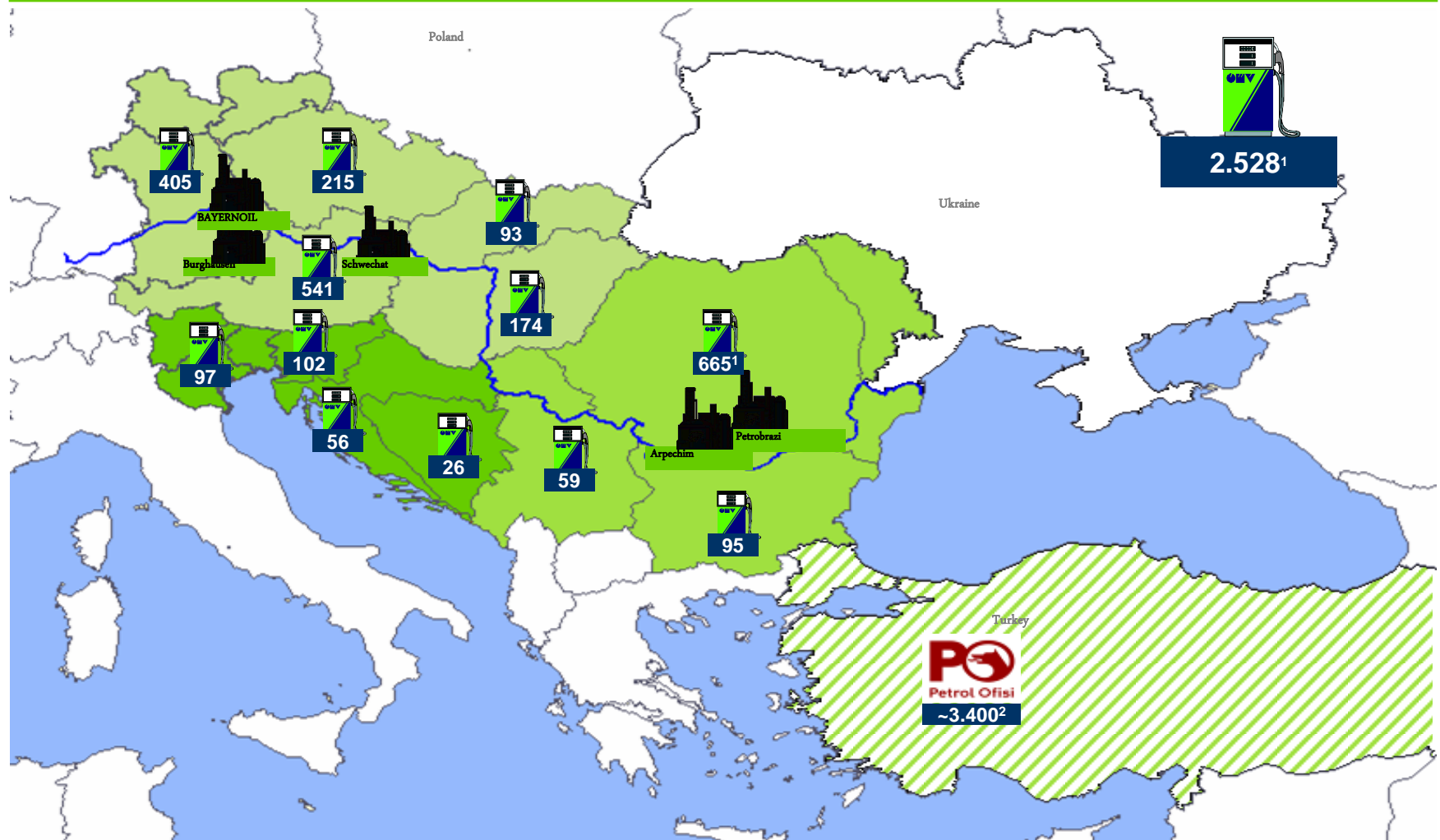


Center for Occupational Health

~ 30 000 employees; ~ 2.100 server; ~ 18.000 clients

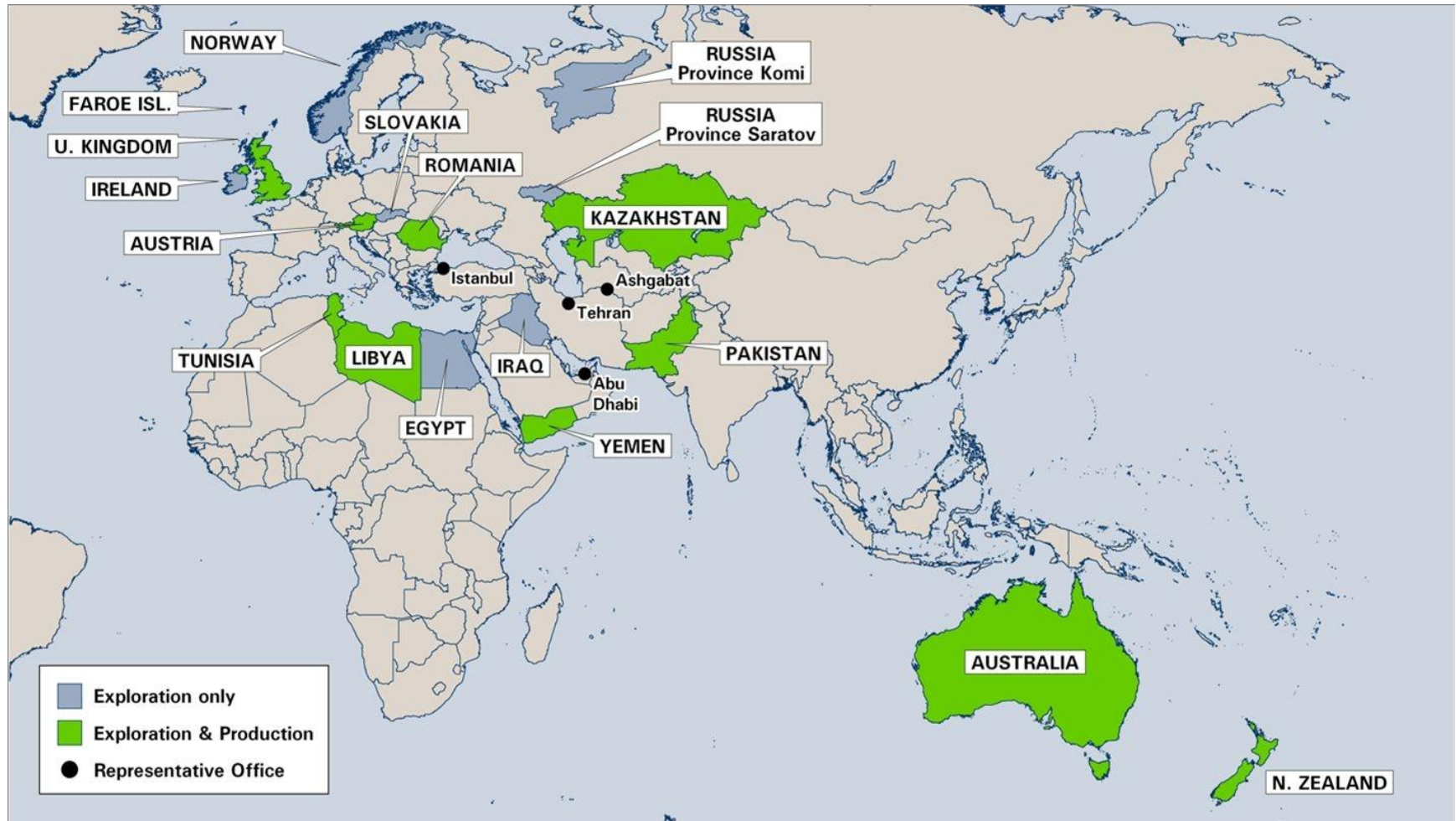


Refining & Marketing activities (R&M)



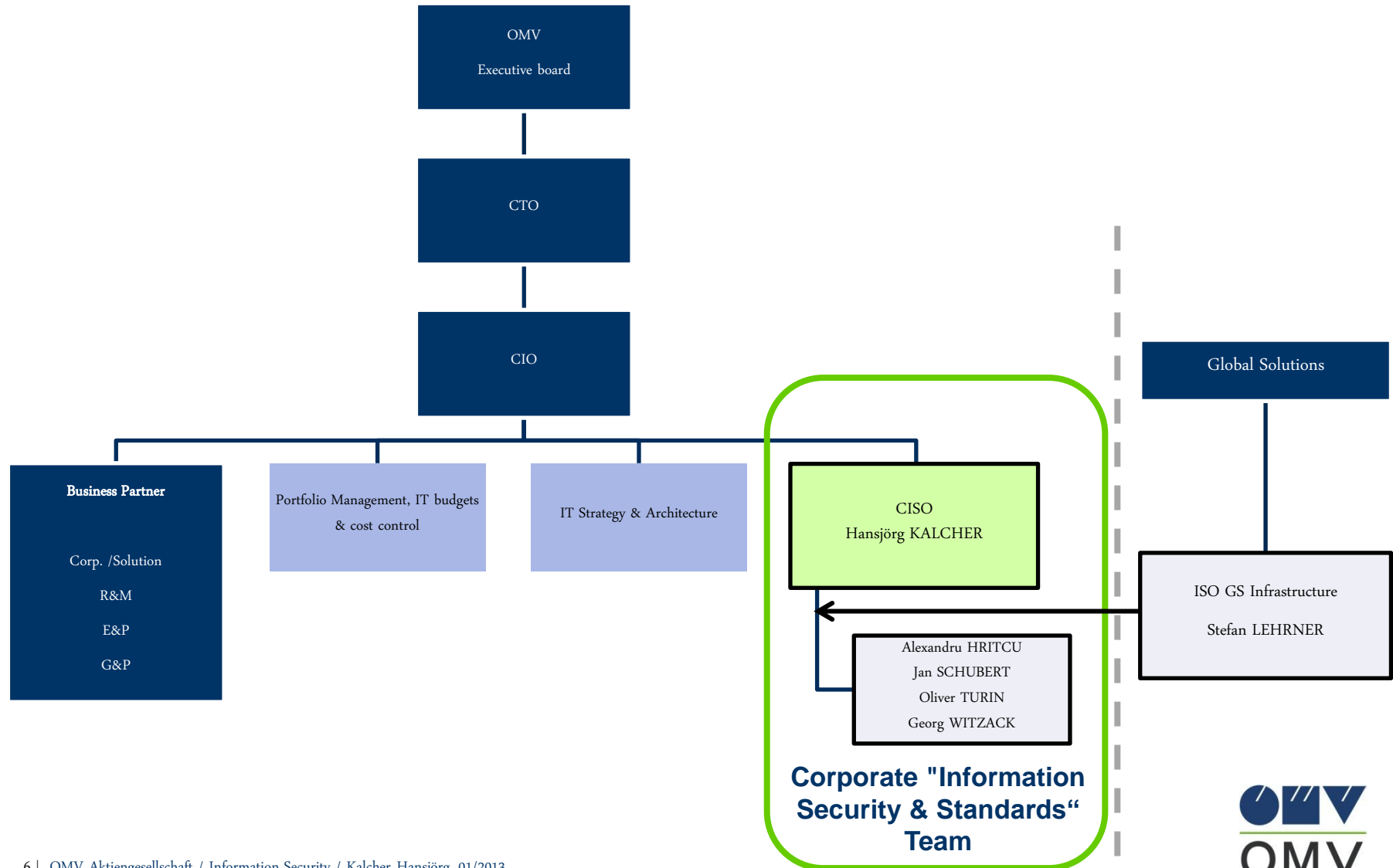


Exploration & Production activities (E&P)





Corporate Information Security...where are we?





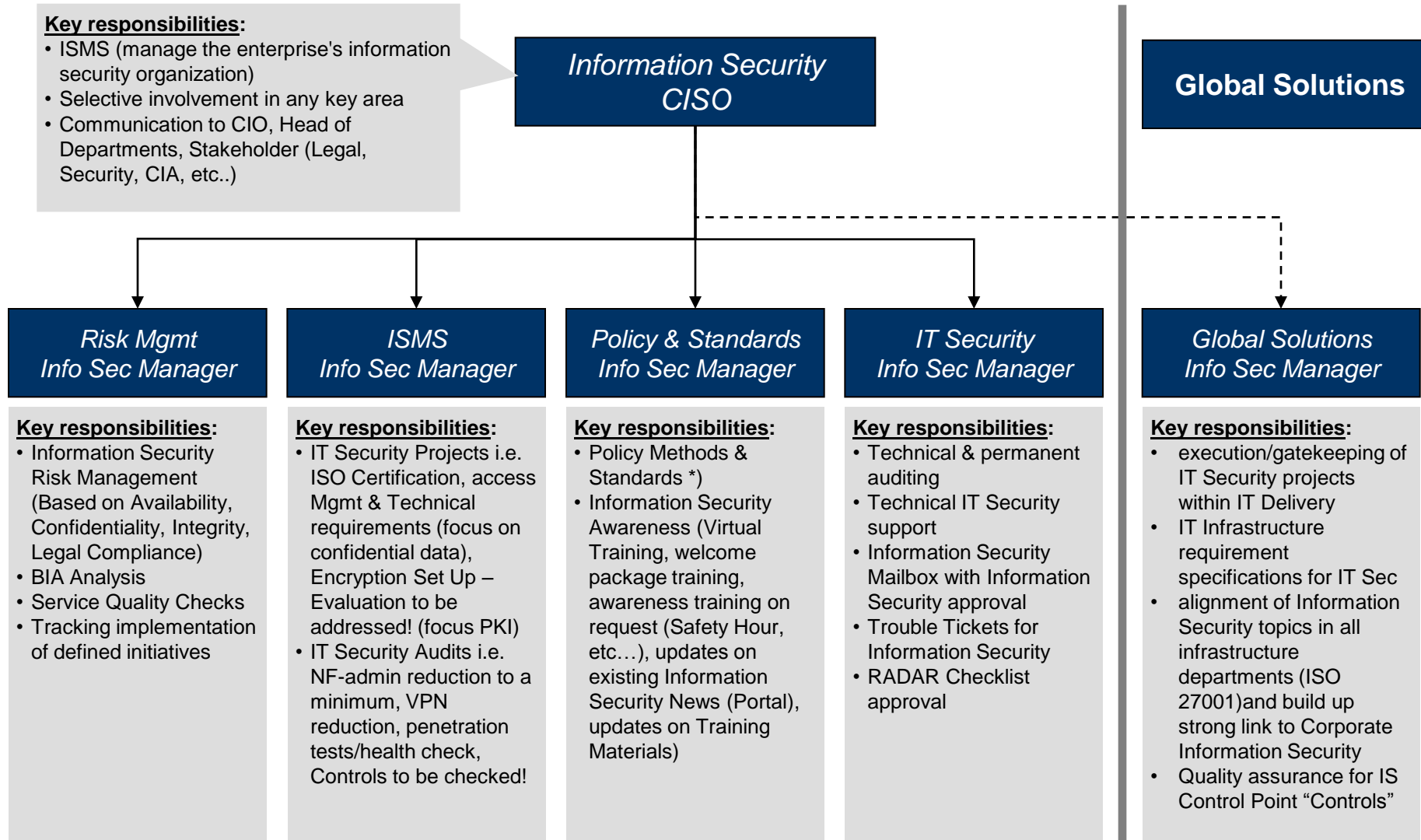
AGENDA

OMV GROUP, ORGANIZATION

DISCIPLINES

AWARENESS

Information Security - Department personnel and responsibilities





Information Security – Way forward...

...making sure the information keeps

- confidential
- upright and
- available

“Doing the right things”:

- Approach “Information Risk Management”:
Reducing the risks based on business needs

Ensure Information Security Risk Management

Safeguarding information according to its protection requirements



2012

2013

2014

RISK MANAGEMENT

- **Facts & Figures 2012:**
7000 IT technical audits done;
45 Risk Assessments for critical IT Services done
600 measures addressed
150 BIA awareness sessions top management done;
160 detailed BIA interviews done

Risk Management Focus 2013 (central computing)

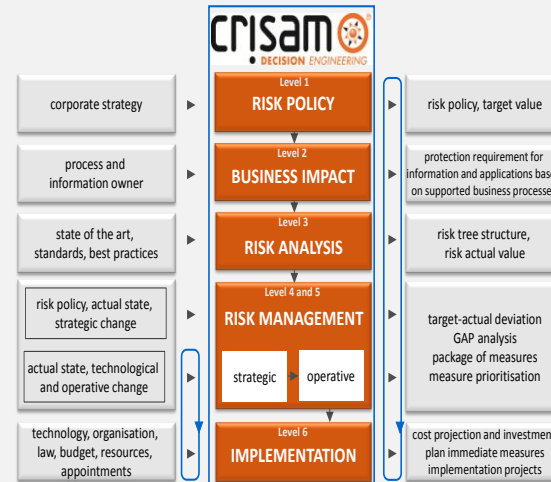


MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

- **Business Impact Analysis**
- **Risk Analysis**
- **Risk Management**
- **Measure Implementation**





Examples of areas with highest risk

Main Information Security Area

▣ PHYSICAL AND ENVIRONMENTAL SECURITY

- Building
- Server room

▣ COMMUNICATIONS AND OPERATIONS MANAGEMENT

- SLA
- Security Management
- Change Management

▣ ACCESS CONTROL

- Windows-Client
- Other application
- Remote Access, VPN

▣ COMPLIANCE

- Unix-Server-operating system
- Virtual server (VMWare, etc)
- Other application

▣ ASSET MANAGEMENT

- User
- Configuration Management

▣ INFORMATION SYSTEMS ACQUISITION, DEVELOPMENT AND MAINTENANCE

- PDA/Smartphone
- Windows-Client
- Internet connection

▣ HUMAN RESOURCES SECURITY

- User

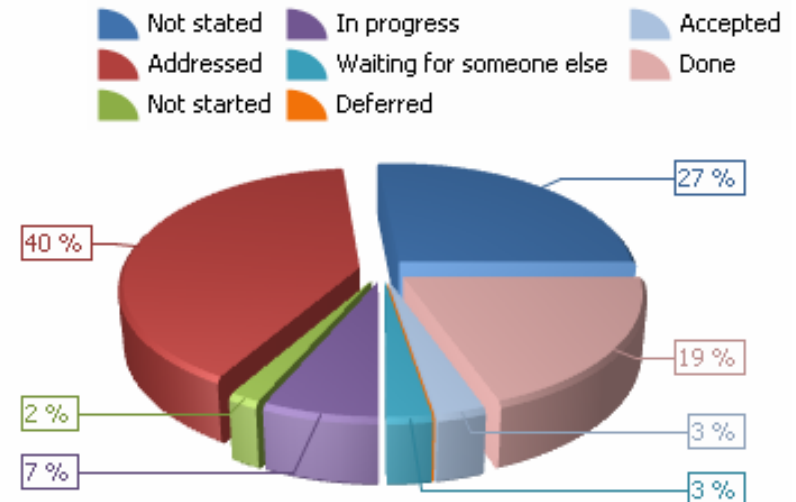
▣ INFORMATION SECURITY INCIDENT MANAGEMENT

- Problem Management
- Incident Management

▣ ORGANIZATION OF INFORMATION SECURITY

- Security Management

OMV Group risk because of IT usage



Ensure Information Security Management System

Safeguarding information according to its protection requirements



2012

2013

2014

RISK MANAGEMENT

MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

Management System Focus 2013
(central computing)



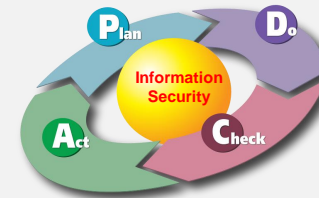
► **Plan Do Check Act** steering and quality assurance

► **ISO 27001** annual certification support

► **Awareness increase**

- Portal
- Trainings
- Info Screens
- Newsletter
- Promotion virtual training
- „Exhibition booth“ (high level topics, Live Demos, non-technical focus, private focus, etc..)

► **Networking** with security relevant organisations (BKA, CERT, AkSiGo, Sec Researchers, Engergy Sector Companies)



Ensure Information Security Policy Methods & Standards

Safeguarding information according to its protection requirements



Policy Methods & Standards Focus 2013 (central computing)



RISK MANAGEMENT

MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

► **Standards:**

Revamping and consolidation of existing IT and security standards in functional alignment with new IT strategy (at present 47 standards to be revised);

► **PCI Assessment:**

Ensuring successful Payment Card Industry Data Security Standard (PCI DSS)

► **IS Training:**

Enhancing the Virtual Training Platform regarding both function and content

► **AD-Hoch measures:**

Responding to short-term emerging legal or business requirements by releasing corresponding regulatory documents (i.e. work instructions)



Defining group wide, high level Standards for Information Security

Standards (Examples)

ISS 01_Information Classification – Confidentiality

- ▶ establishing an OMV group wide classification scheme, defining categories based on types of information needing certain level of protection

ISS 02_Classified Information Handling – Confidentiality

- ▶ defining handling instructions for classified information, in accordance with standard ISS 01

ISS 03_Media Disposal

- ▶ guideline for erase and destruction, i.e. disposal of non-electric and electronic media incl data it contains

ISS 04_Password Standard

- ▶ establishing an OMV groupwide password instruction, outlining both password structure, properties and the appropriate use

ISS 05_ISMS Improvement and Audit

- ▶ defines the general IS Management System, its relevant roles & responsibilities and the corresponding audit approach within OMV group

Working instructions (Examples)

WI for iPhone & iPads for SVP's

- ▶ Usage of iPhones & iPads due to a not existing mobile device management system – nevertheless being compliant to information security requirements

WI for Information handling BO's E&P

- ▶ due to a BIA data with high criticality in regard to confidentiality, integrity and availability have to be handled different

WI for IT Service Desk

- ▶ Within the scope are operational information security decisions & processes which have to be executed via ITSD

WI for Password management on clients

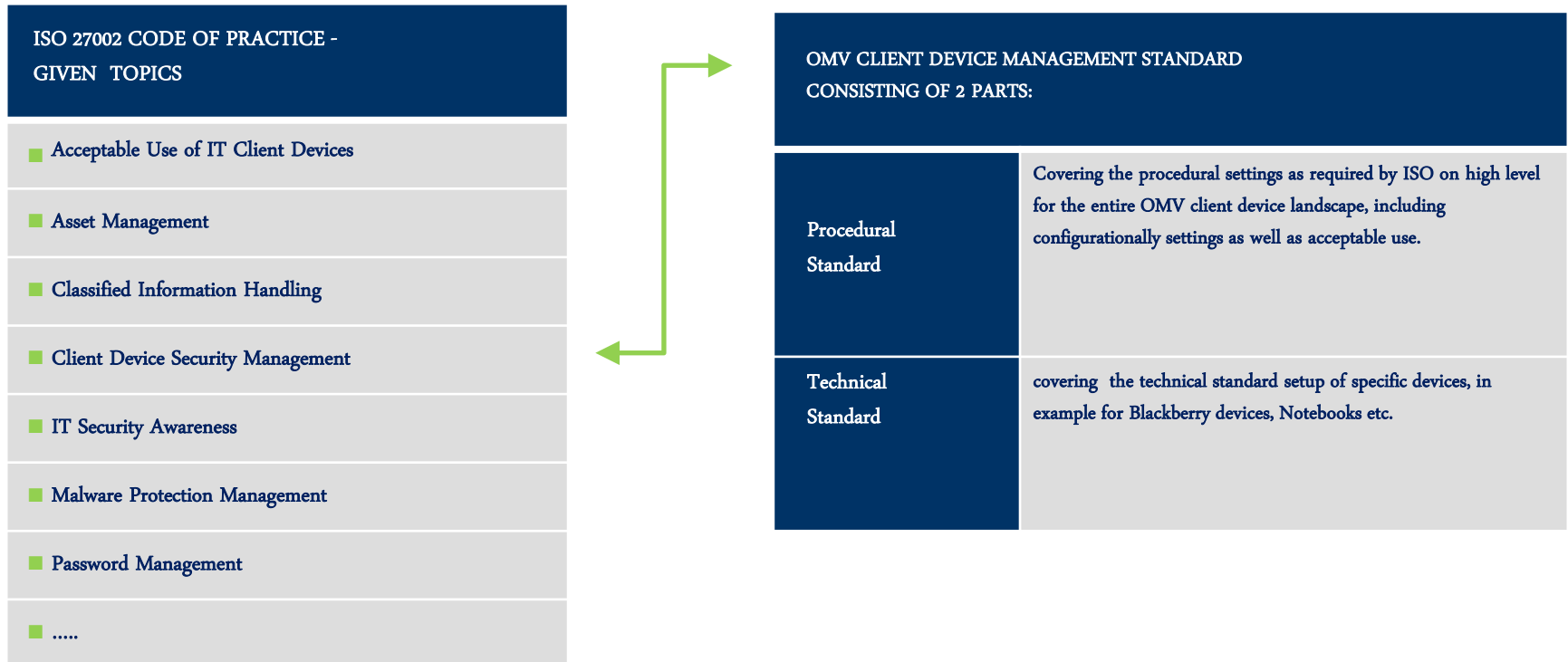
- ▶ Processdefinition regarding admin rights on clients and its prerequisites for approval

Ensure Information Security Policy Methods & Standards

Best practise



Transferring the code of practice from ISO 27k into standardisational guidelines based on a feasible approach by considering business needs and general workability aspects



Ensure Technical Information Security

Safeguarding information according to its protection requirements



Technical Information Security Focus 2013 (central computing)



RISK MANAGEMENT

MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

► Project support and implementation e.g.:

- Mobile Device Management
- Win7 Bit Locker
- Unified Access Gateway
- Identity & Access Management System
- Web Application Firewall
- MS Direct Access
- Global Vulnerability Management-

► Reporting and auditing mechanism

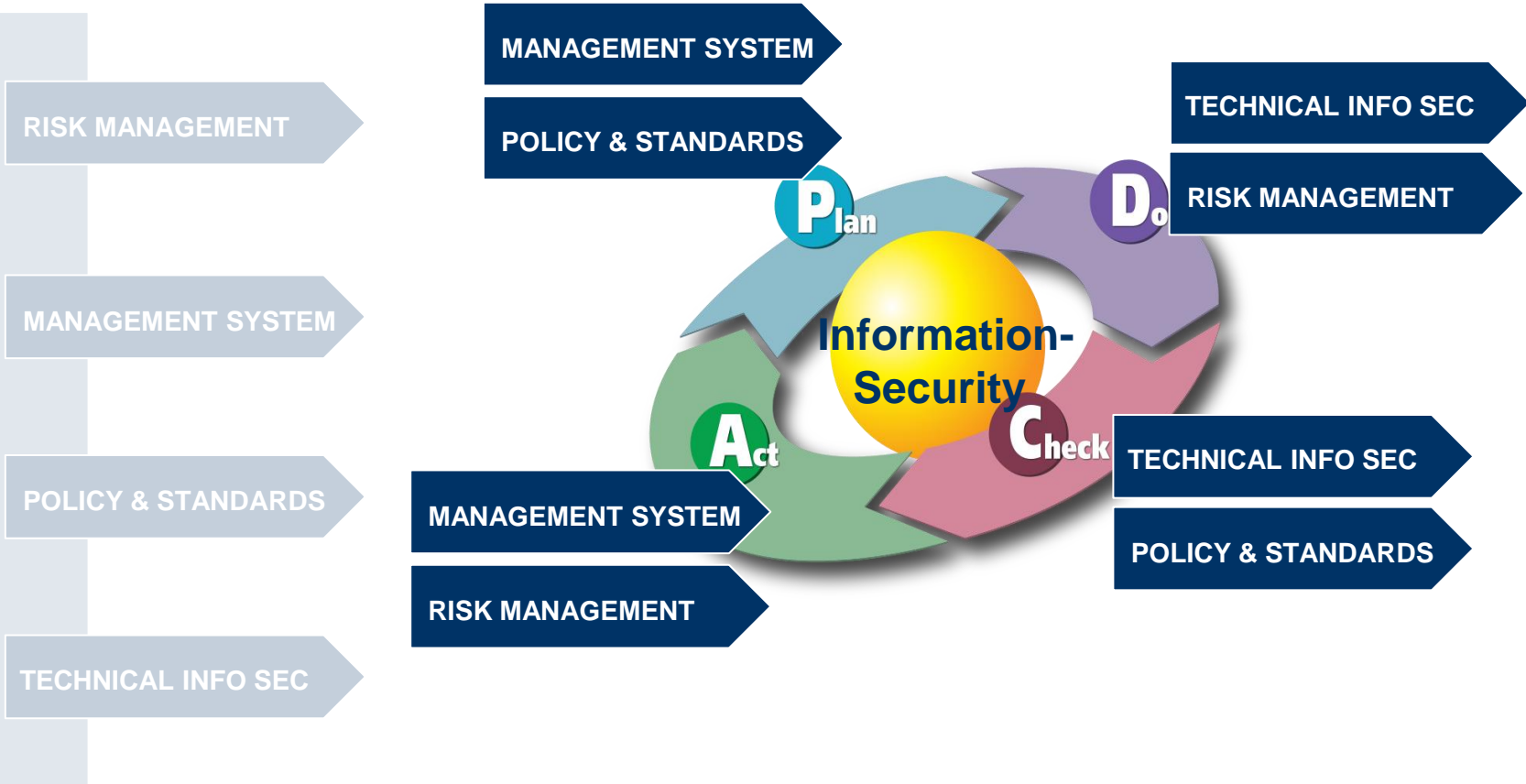
► Organisational interaction with OGS to be enhanced





Ensure Information Security by the PDCA cycle

Safeguarding information according to its protection requirements





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Awareness within OMV Group



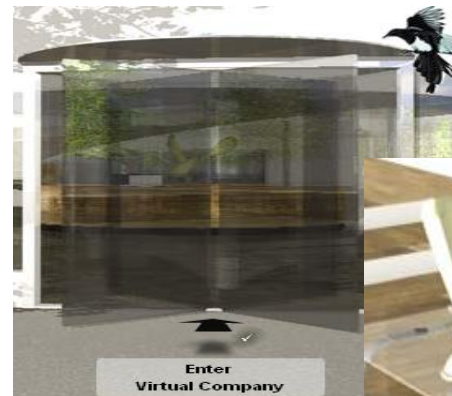
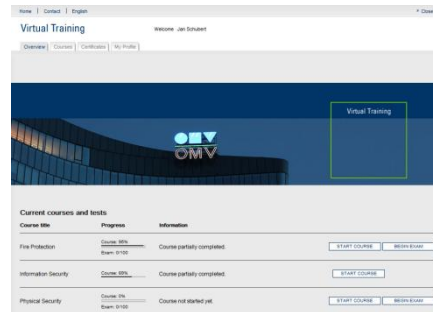


Awareness with a virtual training

Creating Awareness by empowering the Virtual Training Platform

<http://vtc.omv.com>

- Interactive course about Information Security, available in the Intranet
- Possibility to get a certificate
- Intended to integrate the virtual training mandatorily in the personal performance and development cycle (PDS)





Information Security is more than just IT Security





Information Security Day 2012



Ensure Information Security

Safeguarding information according to its protection requirements



IT and non-IT



There was a story about 4 people named Everybody, Somebody, Anybody and Nobody.

There was an important job to be done and Everybody was sure that Somebody would do it.

Anybody could have done it, but Nobody did it.

Now when Somebody got angry about that, because it was Everybody's job, Everybody thought Anybody could do it, but Nobody realized that Everybody would not do it.

It ended up that Everybody blamed Somebody when Nobody did what Anybody could have done!

Sec_rity is not complete without U!

Finally



THANK YOU FOR YOUR ATTENTION!

OR IN THE WORDS OF A MAGPIE:





Questions?

