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A Framework for Information Sharing and Alerting

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CERT-Hungary

22nd ANNUAL FIRST CONFERENCE MIAMI

JUNE 13-18, 2010

Consortium Partners

CERT Hungary

PTA CERT HUNGARY

NASK CERT Polska

CERT POLSKA

NASK

University of Applied Science Gelsenkirchen

if(is) internet security.

Fachhochschule Gelsenkirchen

FISHA Project

- **European Information Sharing and Alert System (EISAS)**
- Starting point: **EISAS Feasibility Study (ENISA, 2007)**

- **EC co-funded project**
- **February 2009 - January 2011**

- Under the Programme for **„Prevention, Preparedness and Consequence Management of Terrorism and other Security Related Risks"**
- A part of the **European Programme for Critical Infrastructure Protection (EPCIP)**

FISHA: Goal

- **Mission:**
  Raising the information level and the awareness of IT security issues
- **Target Groups:**
  Citizens and SMEs
- **Types of Information:**
  Alerts, advisories, best practices, awareness information
- **Appropriate Format:**
  Timely, trustworthy and tailored
  (subject of interest, less technical, in native languages)
- **Effective distribution of information:**
  Multiple channels, integration of related initiatives in EU

Vision Statement

FISHA „Vision“

- The **network**
- which acts as a **meta-information broker**
- for ***alerts, advisories, best practices, awareness*** information
- in **Europe**

FISHA network participants

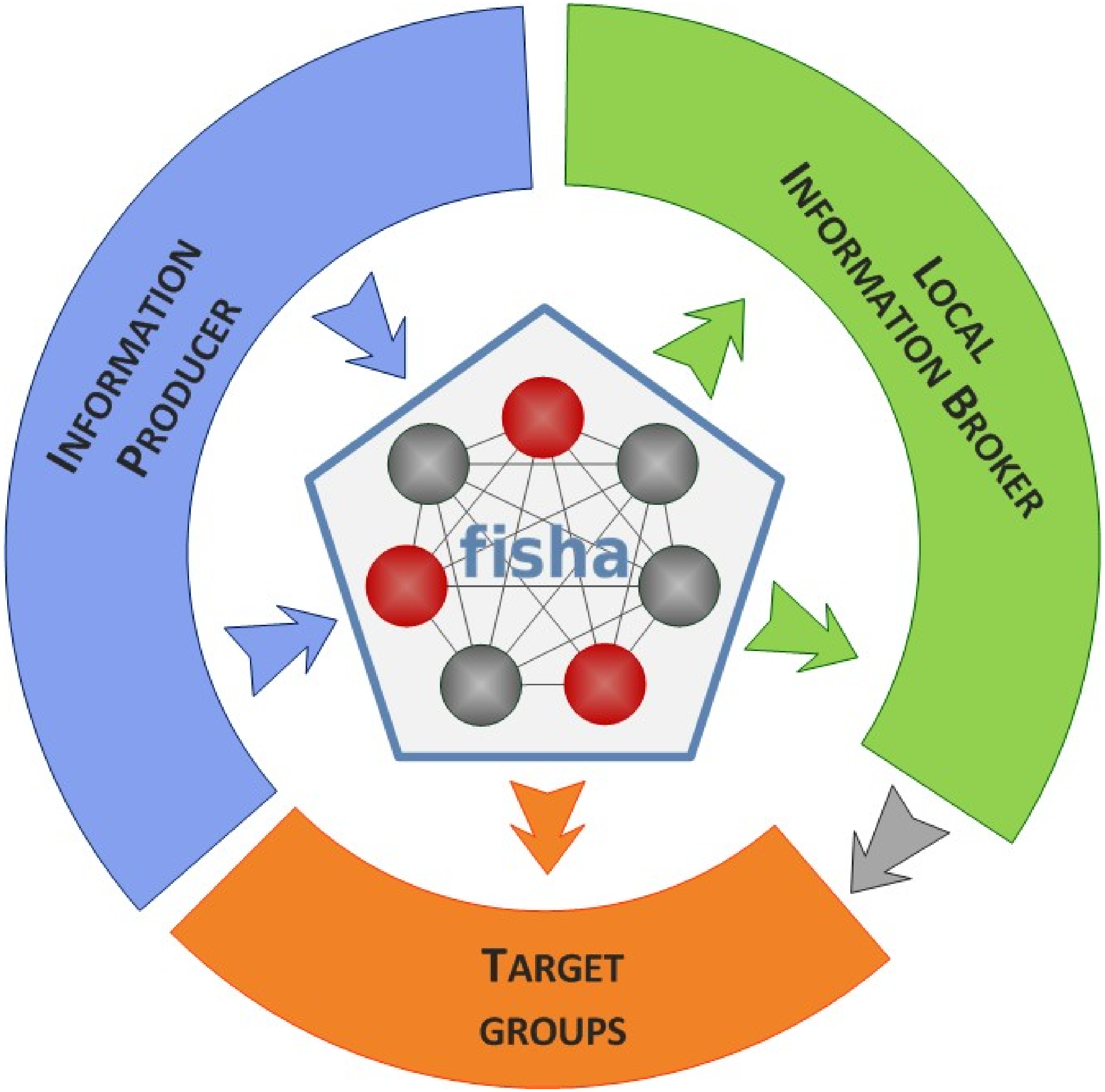
- **NETWORK SECURITY ORGANISATIONS (*e.g.* CERT TEAMS)**
  Every network security organisation that joined FISHA network forms a **node** that is an integral part of the network. It holds a **web portal** that provides information for final users, generates new information, increases the value of information (e.g. add best practice to alerts, translate information into other languages) or shares the information which it possesses.

- **LOCAL INFORMATION BROKERS**
  Distribution channels for information from FISHA network.
  Every possible way to reach the final recipient: web portals, RSS, radio, TV, awareness campaigns etc.

- **INFORMATION PRODUCERS**
  Reputable entities delivering valuable information or materials concerning security. For example software and hardware producers (e.g. MS, Secunia).

- **INFORMATION CONSUMERS**
  Members of target groups.

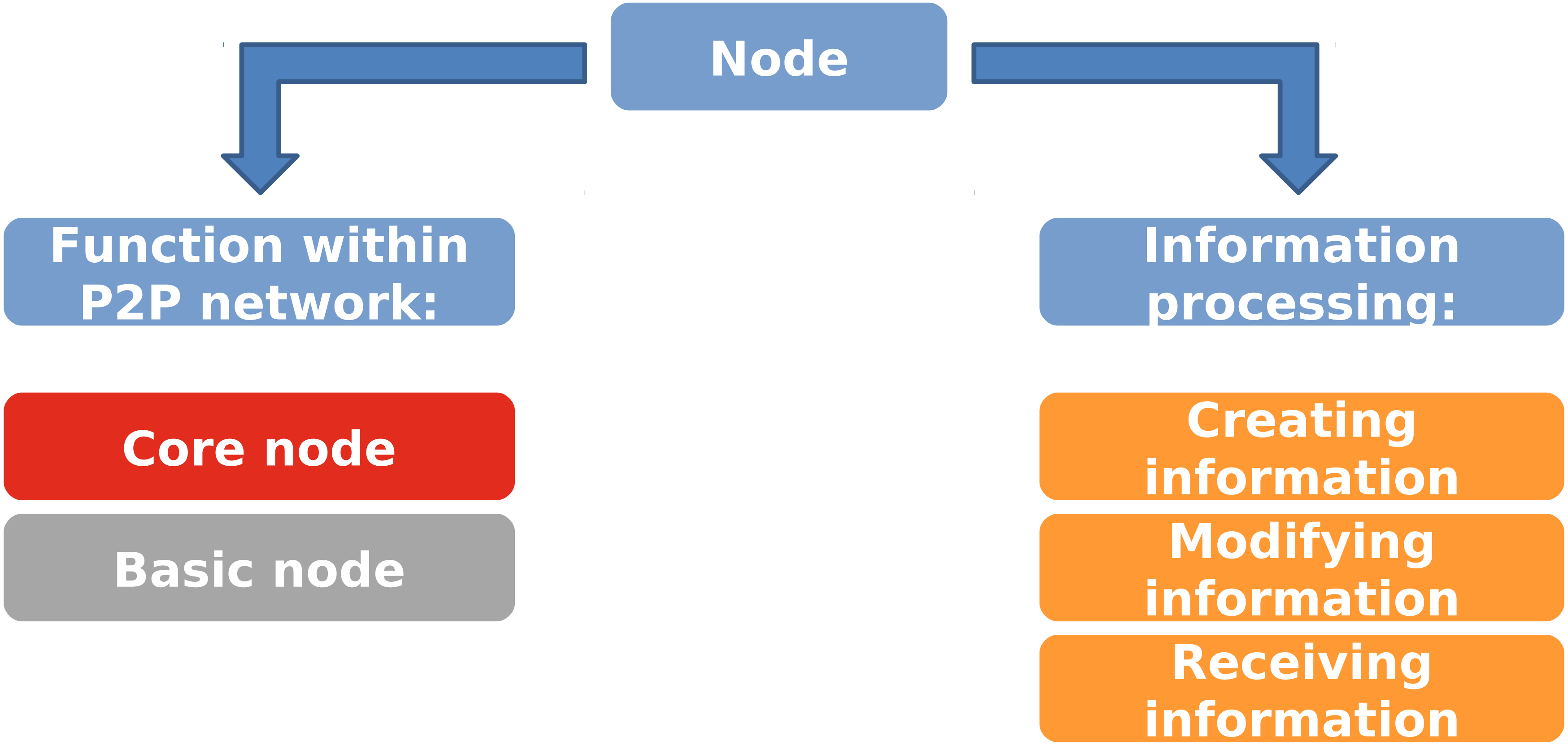
Functional organization



● **Core node**
(to manage P2P network)

● **Basic Node**

Node’s functions



Node

Function within P2P network:

Core node

Basic node

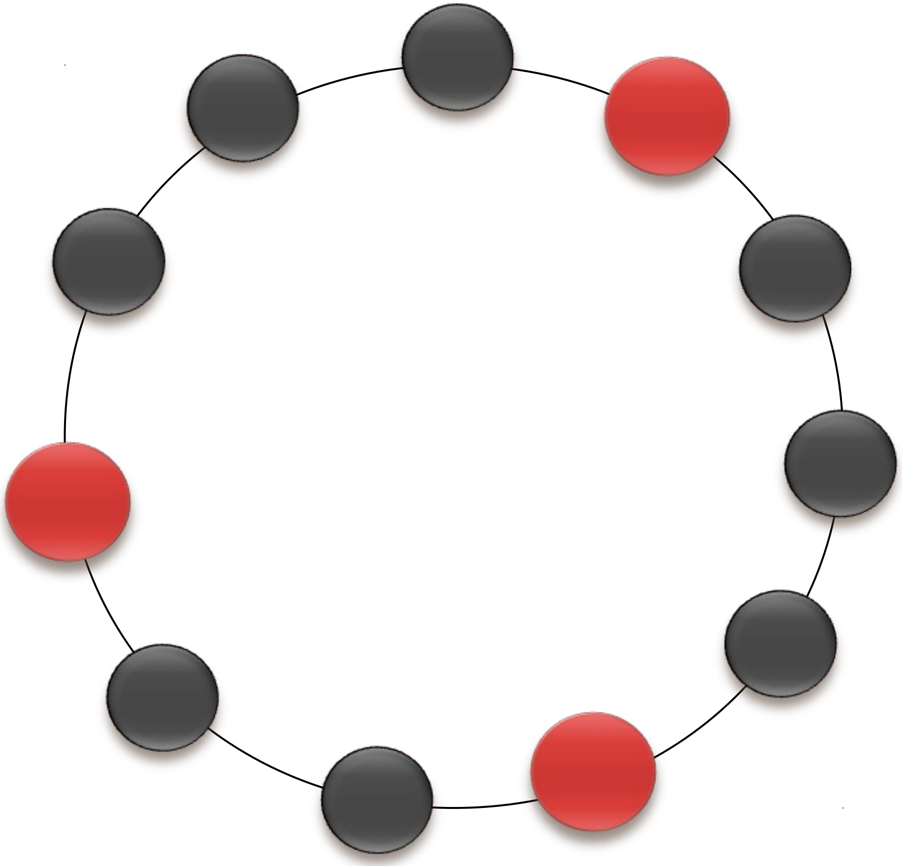
Information processing:

Creating information

Modifying information

Receiving information

Technical organization



- Based on hybrid-P2P
- Ordered structure - ring based
- Two kinds of nodes
- Secured communication
- Position depends on unique ID

🔴 **Core node**

⚫ **Basic node**

FISHA membership

- There will be a **Steering Committee** with **personalities** from the field, which publishes a policy of the “FISHA Network”
(European Information Sharing and Alert System - EISAS) .

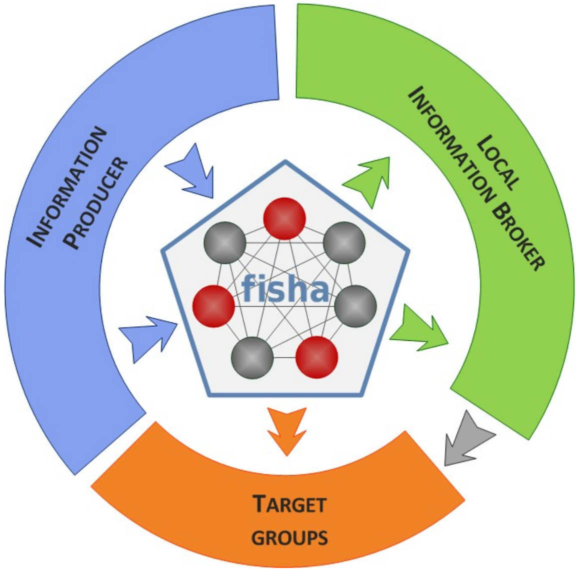
- **The Steering Committee decides:**
  - Who can become a member of the network
  - What will be its role

  Who will additionally work in the **Core Network**
  (offer the necessary services and responsibility)

- All participants of the FISHA Network (including the Steering Committee) will be obligated to follow the policy of the “FISHA Network”.

Additional features

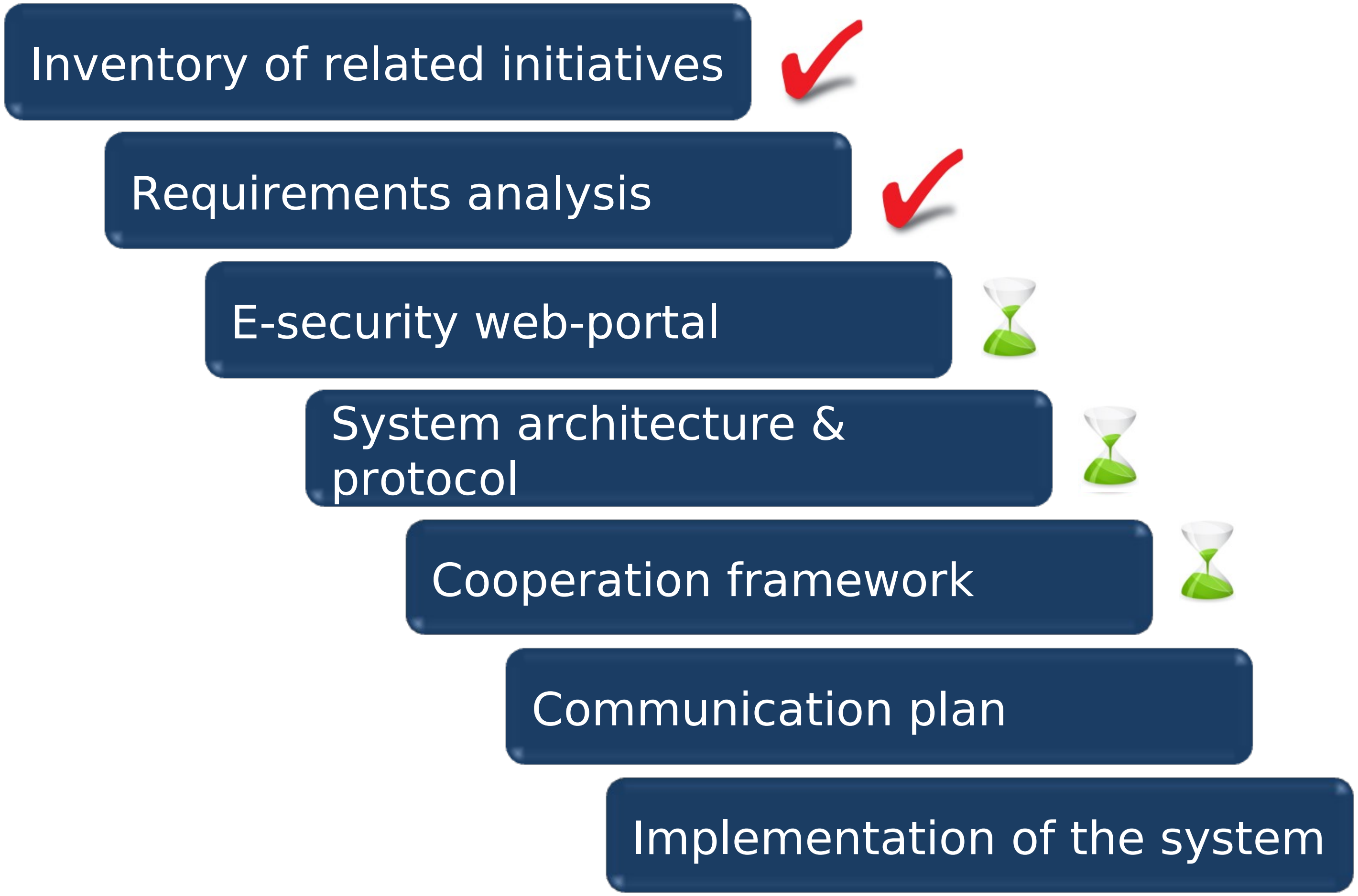
- **Meta-information tagging**
  Ordered network including database of information concerning Internet security, organized based on tag system.



- **Rating system** ★★★☆☆
  Evaluation of usability of particular meta-information for every user of the FISHA network.

- Possibility of **advanced search for security information**

FISHA Action Plan



- Inventory of related initiatives ✓
- Requirements analysis ✓
- E-security web-portal ⌛
- System architecture & protocol ⌛
- Cooperation framework ⌛
- Communication plan
- Implementation of the system

Summary

- European Information Sharing and Alert System
- Home users and SMEs
  → a weak point in global security
- Common undertaking of European network security organizations to cooperate and exchange information

A Framework for Information Sharing and Alerting in Europe

Thank you for your attention!
Questions?

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