

# Czech-German Cross-Border Situational Awareness for Critical Infrastructures (PKI)

Activities of CZ team, 12/2019 – 04/2020

---

Jan Voráček

jan.voracek@vspj.cz

Department of Technical Studies  
College of Polytechnics Jihlava, CZ

Bayerisch-Tschechische  
Hochschulagentur  
Česko-bavorská  
vysokoškolská agentura



- 1) Project stakeholders/collaborators: searching, negotiating
- 2) Own research in the area
- 3) Preliminary work on computational model

Two meetings with the following main outcomes:

- **Project workshop** during KYBEZ annual meeting (mid May?, > 200 participants)
  - Presentation of project ideas
  - Arranging a specific workshop and survey
  - Attracting new collaborators from industrial and ICT services segments
- Availability of **BEAN data** for further processing  
<https://www.kybez.cz/bean>
- Availability of **GORDIC cybersecurity (CS) tools** for education and research  
<https://www.gordic.cz/verejna-sprava/kyberneticka-bezpecnost>
- Searching for a funding of a **joint educational CS program**
- **Public promotion** of joint activities including this project

## CSA

Integrated tool for CS  
management including  
ISO 27 000

## GDA

Full GDPR agenda,  
including characteristics  
of ICT resources

## GDPO

Electronic  
implementation of CS  
processes and education

## PDIL

Personal data  
identification and  
anonymization

# Other contacted collaborators

---

- NUKIB: National Cyber and Information Security Agency
- Vysočina region: ICT department
- CEZ: National producer and distributor of electrical energy
- FIDES Trade: Provider of integrated security solutions
- KYPO: Academic training and simulation CS environment

<https://www.kypo.cz/en>

- Initial review completed
  - Results stored in Zotero
  - Two BSc. theses on these topics will be defended in summer
  - Two related theses topics (MSc. + BSc.) were already selected
  - Antonin's PhD. topic is under preparation
- Paper accepted for IFKAD conference
  - Cybersecurity management: a knowledge-based perspective
- Abstract accepted for ECMLG conference
  - Cybersecurity of Cross-Border Critical Infrastructures: Emerging Challenge in IT Management
- Related research report will summarize all these results till 30.6.2020

# Preparatory work on computational model

---

- Purchased FORIO developer's license valid till 12/20
- Familiarize with Epicenter environment
  - Possibilities, imports, exports, interfaces
- Implementation of sample initial cybersecurity model, based on SD archetypes
  - Modeling level of internal CS
    - CS as a business service
  - Modeling external CS relations with respect to national and international networking
    - PESTEL scenarios and joint parametric sensitivity