

### Kick-off Master Specialisation Cyber Security

Pieter Hartel, Delft & Twente Andreas Peter, Twente & EIT Christian Doerr, Delft http://4tu.nl/cybsec



### Agenda

- Introduction to the 4TU.CybSec degree course
- Presentation of the various courses

### Break

- Presentation of the various courses (continued)
- Questions & Answers

# Characteristics of the program

- Risk management
- Technology (2/3) in context (1/3)
- 2 year full time program, start 2x per year
- Tele-lecturing + some travel
- Core courses
- Introductory and advanced electives
- Final year project
- Capstone cyber security
- Certificate
- Agreed Individual Study Plan (ISP)

# Course portfolio

#### **Core courses**

- 1. CDA: Cyber Data Analytics
- 2. CRM: Cyber Risk Mgmnt.
- 3. Crp: Security and Crypto.
- 4. NeS/InS: Network security
- 5. SoS/PAS: Software Security 16.Q101: Fund. quant. inf.

### **Electives**

- 6. ANS: Adv. Netw. Sec
- 7. ASA: Applied Sec. Analysis
- 8. BCE/BCT: Block chain
- 9. Bio: Biometrics

10. Cap: Capstone cyber sec.11. CCS: Cyber Crime Science

11. CoE: Computer Ethics 12. CSM: Cyber Security Mgmnt. 13. Ela: E-Law 14. EoS: Economics of Security 15. PET: Privacy Enh. Tech. 17. Q201: Quant. Comm&crypto. 18. SDM: Secure Data Mgmnt. 19. SeV: Security Verification 20.SSH: IoT Security 21. STR: SW test. & Rev. Eng. 22. SyS: System Security



### Focus

- Network : Ins/NeS, ANS, SSH
- Software : SoS/PAS, SeV, STR
- Data : Bio, Crp, CDA, PET, Q101, Q201, SDM
- System : ASA, BCE/BCT, SyS

## Advisory board

The ideal graduate:

- is an über technologist
- speaks a second language
- is able to translate strategic questions into technical questions and vice versa
- enjoys solving technical problems and is capable of abstract thought.

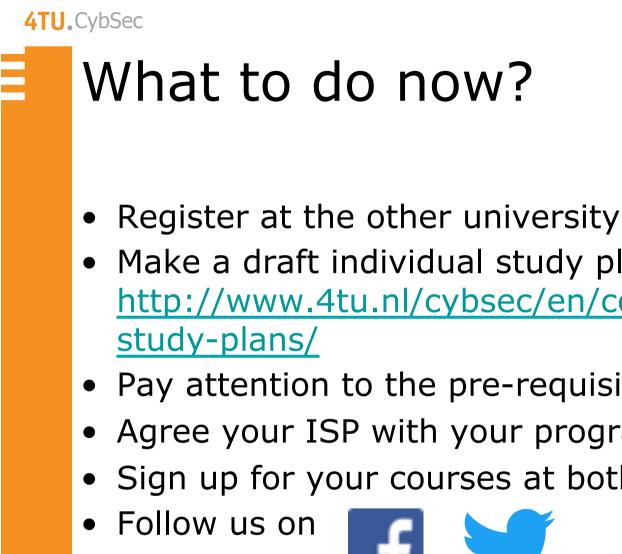
### Alumni work as

- Computer and network security specialist
- Chief Technical Officer
- Developer
- Digital expert police
- Entrepreneur
- Ethical hacker
- Information security advisor
- Lead engineer
- Lecturer
- Management consultant

- PhD student
- Privacy advisor
- Researcher
- Security & privacy consultant
- Security analyst
- Security consultant
- Senior analyst and test consultant
- System Architect
- Software engineer
- Technical consultant

## Practical information

- Lectures and exams at your own University
- Labs may require travel
- You must be enrolled at both Universities
- Not all lectures are recorded
- Not all vacations are synchronised
- FAQ: <u>https://www.4tu.nl/cybsec/en/faq/</u>



- Make a draft individual study plan (ISP), see http://www.4tu.nl/cybsec/en/course-program/
  - Pay attention to the pre-requisites
  - Agree your ISP with your program mentor
  - Sign up for your courses at both universities

