



# **Planning**



- Project start
  - Thursday 10/3 15h-17h30
- Work sessions
  - Thursday 24/3 15h-17h30
  - Thursday 31/3 15h-17h30
- Deliver deliverables
  - Sunday 8/5
- Project defense
  - Tuesday 17/5





# **Organisation**



- Work in groups of 3
- Share the work
  - and don't forget to mention task allocation in your presentations!





### **Objective**



- Chose your objective
  - Objective 1
    - Anomaly detection for tracking attacks
  - Objective 2
    - Adversarial attacks against classification





#### **Datasets**



- 1) The UGR'16 Dataset
  - Data: <a href="https://nesg.ugr.es/nesg-ugr16/index.php">https://nesg.ugr.es/nesg-ugr16/index.php</a>
  - Scientific paper:
    - https://nesg.ugr.es/nesg-ugr16/dataset\_AuthorVersionFinal.pdf
- 2) The Mawi dataset. Use exports from 3/3/2022 and 4/3/2022
  - https://mawi.wide.ad.jp/mawi/samplepoint-F/2022/202203031400.html
  - https://mawi.wide.ad.jp/mawi/samplepoint-F/2022/202203041400.html
  - Scientific paper
    - http://conferences.sigcomm.org/co-next/2010/CoNEXT\_papers/08-Fontugne.pdf





### **Deliverables**



- Analysis notebook
  - shared on Google Collab
- Analysis report
  - 20 pages
- Final oral group presentation (10 min) + demonstration (5 min)





### **Project report**



- Detailed specification and implementation details on
  - The complete deployment of the data handling chain (including classification + anomaly detection)
  - Characterization of the dataset under study
  - Benchmark of 3 complementary analysis algorithms
  - Conclusions about cybersecurity events in the dataset





### Project defense



- Security analysis review based on the report
  - What are the attacks?
  - Which security-related conclusions can you draw?
- Demonstration





#### **TODO**



- **10/3** 
  - Groups + dataset + objective
  - On: <u>SCIA\_Secu&IA\_Project\_groups.xlsx</u>
- **8/5** 
  - Deliver deliverables
- **17/5** 
  - Project defense



