

TeraFlow
SDN
by ETSI

Welcome & Logistics

Silvia Almagia, ETSI

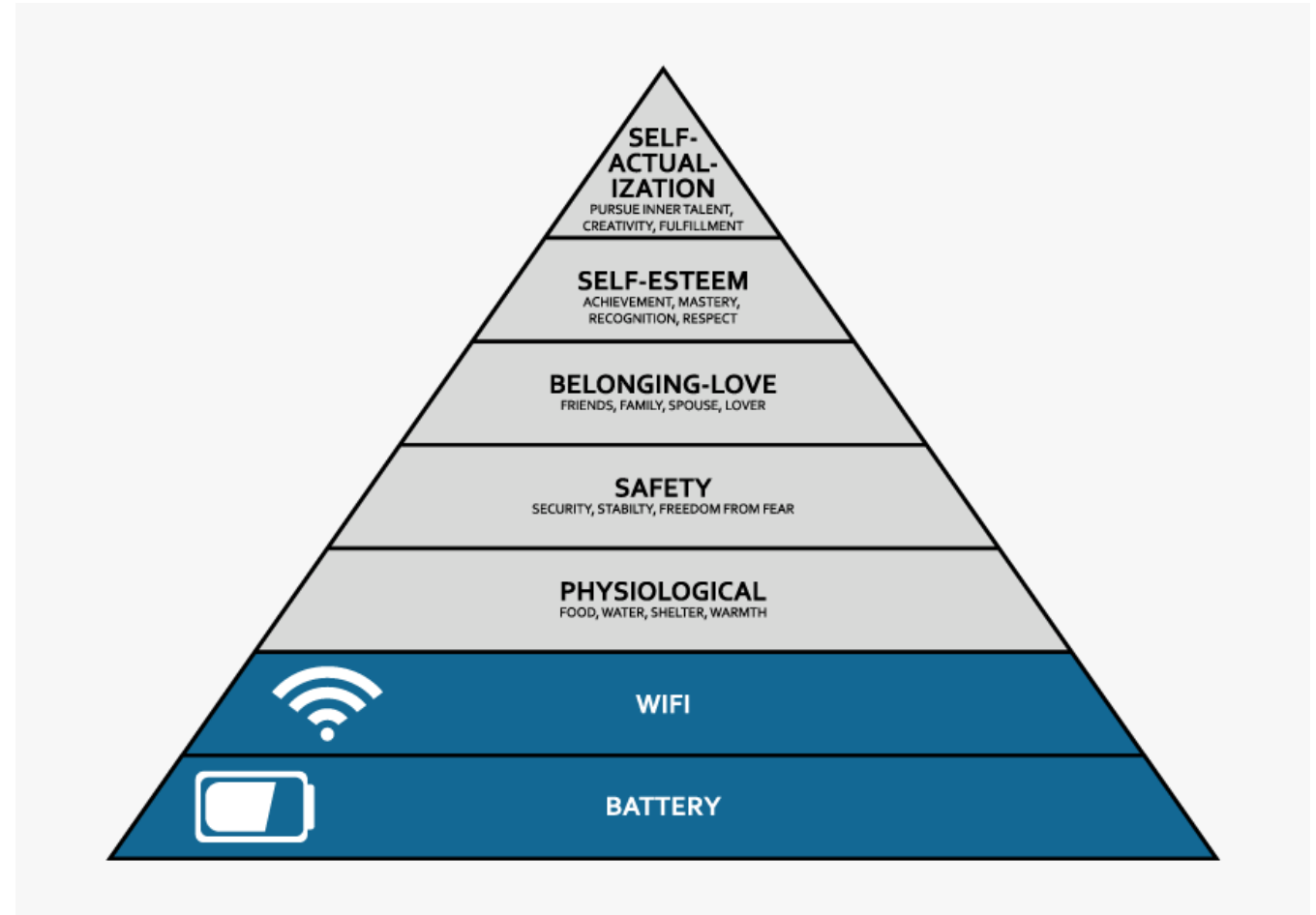
TFS#3 Hackfest & Ecosystem Day

Castelldefels, 16-18 October 2023

First things first: WiFi

SSID: cttc-guest

Password: 25GauSS90FiWi71



Welcome to the 3rd TFS Hackfest!

- ETSI TFS: TeraFlowSDN is an ETSI hosted Open-Source Community
 - Created in May 2022, building on the work of EU H2020 project TeraFlow
 - Developing a cloud native smart SDN controller
 - In support of a large set of use cases defined by different ETSI groups (NFV, MEC, mWT, ENI, SAI, PDL, OSM...) and research projects
- This is a 1,5-day Hackfest dedicated to P4
 - Some theory today followed by hands-on sessions
 - Driven by TFS community members
- Followed by the TFS#3 Ecosystem Day on Wednesday!

 TeraFlow
SDN Hackfest
Castelldefels, 16-17 October 2023

REGISTER

Agenda - Hackfest

Monday, 16 October 2023 - 2:00-6:00 pm

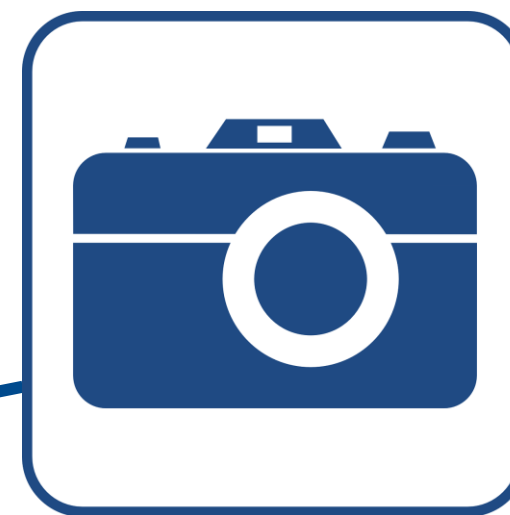
- Welcome & Logistics (ETSI & Host)
- TeraFlowSDN 101 (TFS Chair & TFS TSC Chair)
- Introduction to P4
- Abstractions of the TeraFlowSDN controller
 - Device Abstraction Layer
 - Service Abstraction Layer
 - Policy Abstraction Layer
- 15h30 Coffee Break (sponsored by HE SNS ACROSS)
- Walkthrough of a complete P4-based demo
 - Mininet topology setup
 - TeraFlowSDN controller deployment
 - Monitoring setup
 - Service deployment
 - Policy deployment

Tuesday, 17 October 2023 - 9:00 am - 6:00 pm

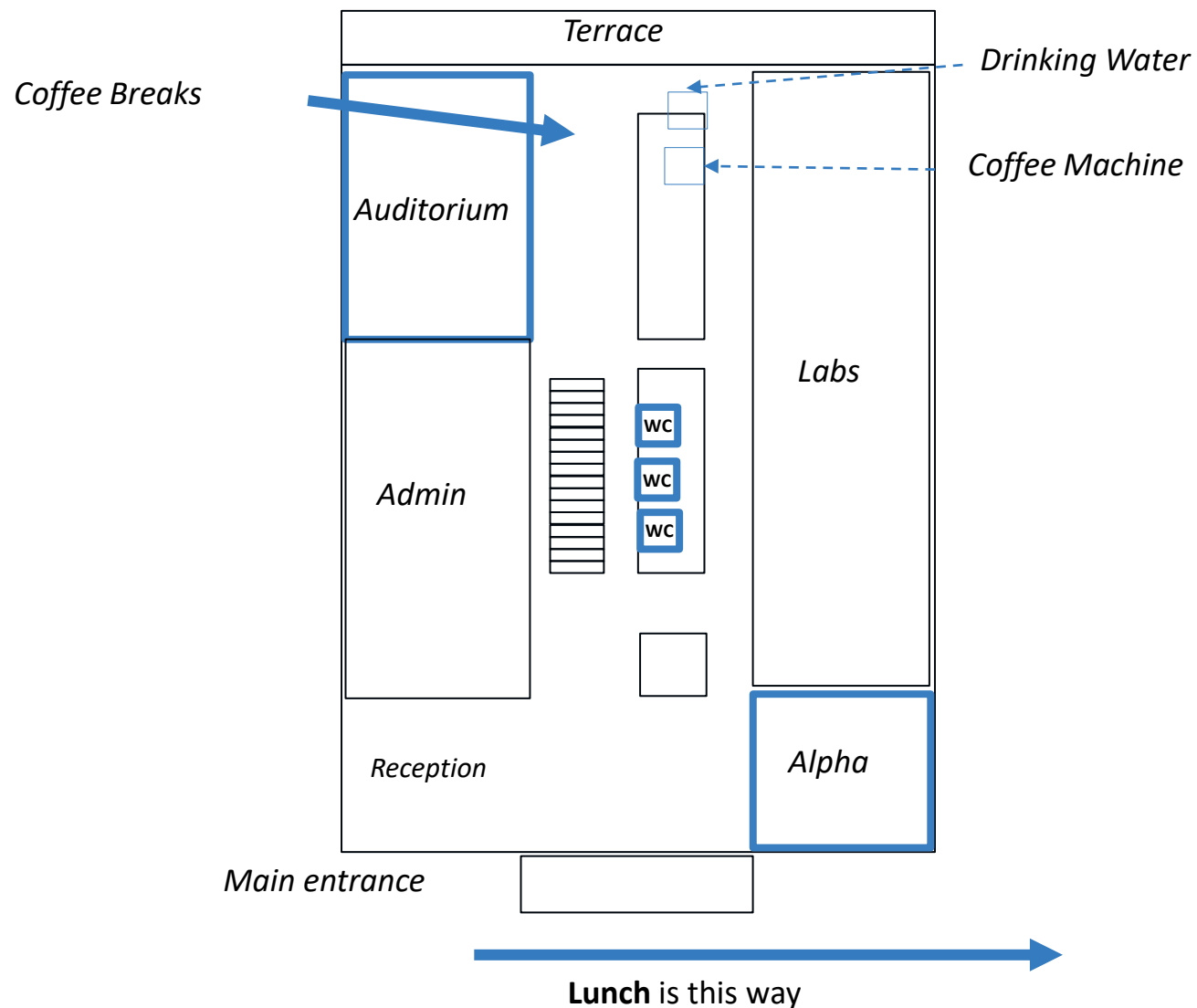
- Welcome Day 2
- Interactive Hacking Session
 - Tutorial on the Policy and Monitoring Components
- 10h30 Coffee Break (sponsored by HE SNS ACROSS)
 - Hacking the Day 1 P4-based demo
- Lunch break (self-paid)
- Interactive Hacking Session
 - Hands-on exercises on P4 data plane programming
 - Interaction of P4 with TeraFlowSDN
 - First ideas towards in-band network telemetry (INT)
- 15h30 Coffee Break (sponsored by HE SNS ACROSS)
- Discussion on possible enhancements for the P4 driver of TeraFlowSDN
 - Introduction to P4-based in-band network telemetry (INT)
 - Call to action
- Wrap-up Day 2 & end of Hackfest

Agenda – Ecosystem Day – Wed, 18 October

- 09h40 - **Local Registration**, collect your badge!
- 10h00 - **Welcome to the TFS#3 Ecosystem Day** by Ricard Vilalta (TFS Chair)
- 10h05 - **Hexa-X-II - TeraFlowSDN and ETSI MEC** by Ricard Vilalta
- 10h30 - **OCTAPUS - Teraflow SDN as control plane for Next Generation Central Office (NGCO) in hybrid TSN/optical environments** by Pietro Piscione
- 11h00 - Coffee Break (sponsored by HE SNS ACROSS)
- 11h30 - **Flex-Scale - Optical SDN controller** by Nicola Sambo
- 12h00 - **SEASON - Network Digital Twin** by Achim Autenrieth/Vignesh Karunakaran
- 12h30 - **Int5Gent+ALLEGRO+SEASON - Multi-layer slice controller architecture** by Pablo Armingol
- 13h00 - Lunch (self-paid)
- 14h30 - **Flex-Scale - Energy Consumption awareness in Transport Networks** by Raul Muñoz
- 15h00 - **OpenCAPIF - New ETSI SDG for a Common API Framework** by David Artuñedo
- 15h30 - Group Picture & Coffee Break (sponsored by HE SNS ACROSS)
- 16h00 - **ACROSS - OpenSlice - TFS integration** by Lluís Gifre
- 16h30 - **Closing Remarks** and end of TFS#3 Ecosystem Day by Ricard Vilalta
- 20h00 - Social Dinner (self-paid)



B4 Building Ground Floor



- TFS#3 Hackfest & Ecosystem Day
 - **Auditorium** (ground floor)
- TFS#3 Plenary Meeting
 - **Alpha** room (ground floor)
- Coffee breaks
 - Outside auditorium (Hall)

Lunch at Campus Canteen (self-funded)



Campus Canteen

CTTC B4

Self service menu (~9 EUR):

- Starter: salad / selection from daily menu
- Main course: selection from daily menu
- Bread, water and dessert included in menu price.
- Coffee **not** included.

Networking Dinner (self-funded ~45 EUR) Wed 20h

Restaurante AMAR



Join us!



Getting to the airport

Recommended timing: depart from CTTC 90 minutes prior to departure.

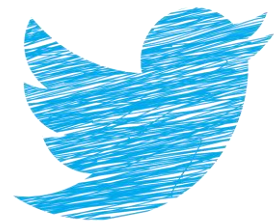


Hackfest Logistics

- **WIKI:** agenda, presentations and Hackfest material
 - <https://labs.etsi.org/rep/groups/tfs/-/wikis/TFS-HACKFEST-3>
- **BYOD:** You need your **laptop** + Linux + K8s environment
 - Follow the instructions in the [wiki](#)
 - USB Sticks available with pre-downloaded Hackfest VM
- **Slack:** Interaction with TeraFlowSDN Users and Devs
 - <https://terafloowsdn.slack.com/>
 - [Invite Link](#)
 - Join the [#hackfest3-2023-oct](#) channel



Follow – Tag – Comment!



@TeraFlowSDN



#TFShackfest

Tomorrow

- A **satisfaction survey** will be circulated
 - Please take 2 minutes to answer and leave us your comments, your feedback is precious!
- Every **completed survey** will be awarded with
 - A **TeraFlowSDN** T-shirt
 - An **e-Certificate of participation**



If you enjoy the **ETSI TeraFlowSDN** experience..

● **Join us!**

- Participation is open to ETSI members, non-members, individual contributors and users...
- Free of charge for
 - ETSI Members
 - ME/SME
 - Universities
 - Public Research
 - User and Trade Associations
 - Individuals
- Learn [how to join](#) or contact TFSsupport@etsi.org

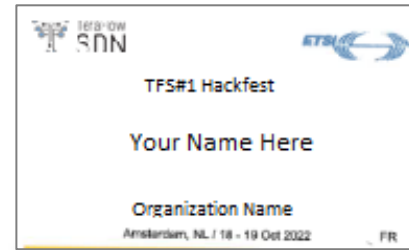


Check list

Now:

- Double check you are [registered](#)

- Collect your **badge**

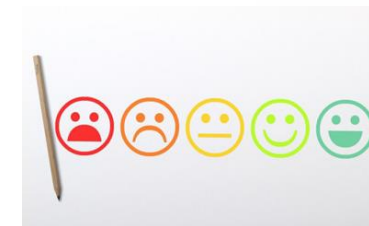


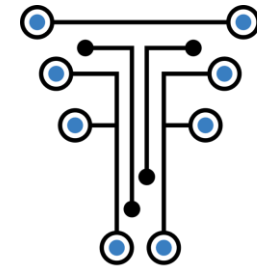
- Sign up for the **Networking Dinner** on Wednesday



Tomorrow:

- You fill in the **survey**
- You collect your **TeraFlowSDN** T-shirt, and..
- You wear it on Wednesday for the group **picture!**





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Enjoy the Hackfest!

tfs.etsi.org
TFSsupport@etsi.org