LINUX EMBEDDED CHALLENGE 2017

SUMMARY PRESENTATION

EXTERNAL USE

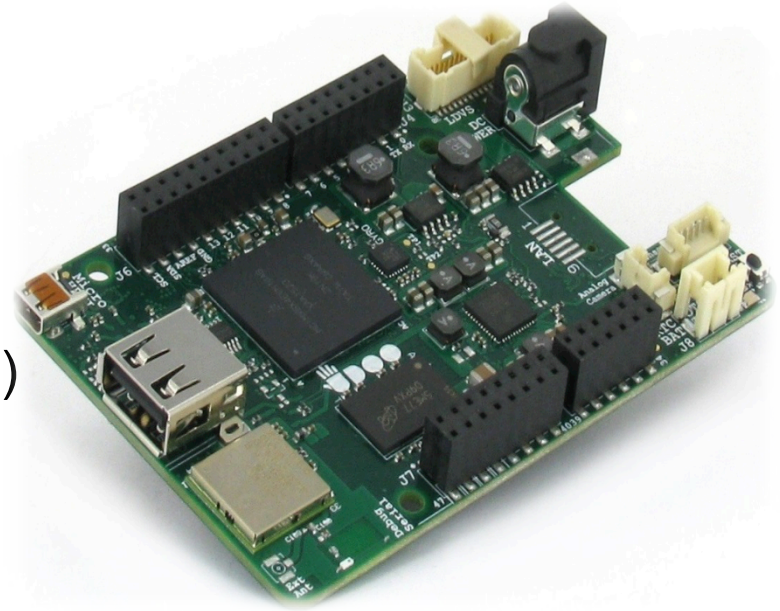
SECURE CONNECTIONS
FOR A SMARTER WORLD

Competition summary

- **Linux Embedded Challenge** is a student competition organized by NXP Romania
- Students are organized in teams of 1 – 3 members
- Each team has to implement a project on an embedded device running a version of Linux, using the *standard competition set* provided by NXP for free (the set must be returned after the competition ends)
- Each team selects 1 project to work on
  - Projects proposals come mainly from NXP (one project can be selected by multiple teams)
  - Student proposals are allowed, but require calibration
- Eligibility: all students (bachelor, MSc., PhD.)

Competition summary – Standard competition set

- Platform: UDOO Neo Extended
  - Based on NXP i.MX6 SoloX
  - 1 x Cortex-A9 (1 GHz)
  - 1 x Cortex-M4 (200 MHz, Arduino-UNO compatible)
  - 1 GB RAM
  - 2D & 3D Graphics (Vivante GC355 & GC400T)
  - Sensors (accelerometer, magnetometer, gyroscope)
  - Pinout (up to 32 x GPIO, 6 x analog input)



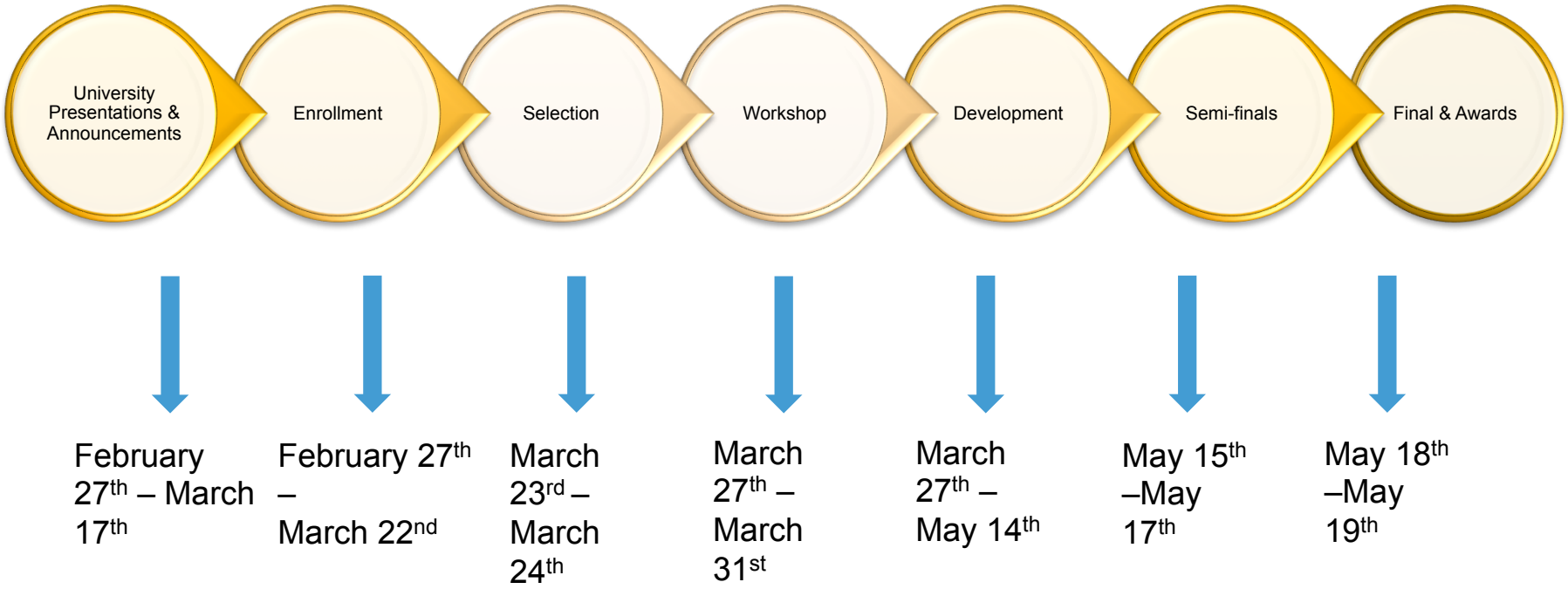
- OS: Linux (UDOObuntu 2.1.x), Android (6.0.x)

- **Documentation** and **Tutorials** available at udoo.org

Competition summary – Standard competition set (cont.)

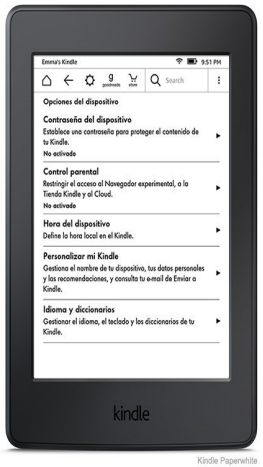
(*) Display only for graphics-related projects

Timeline



Awards

- The awards offered by NXP will be:
  - *3rd Prize*: Garmin Forerunner or equivalent
  - *2nd Prize*: Kindle
  - *1st Prize*: Participation at the *2017 LinuxCon Europe* or *Embedded Linux* conference (in Prague) for the entire team



Kindle Paperwhite

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