

↓ Were porting to the RIOTboard. You probably know us by now...

## 1 Motivation

↓ Context also commonly known as: META-stuff-slide ↓

↓

because, why not? ↓

who doesn't? ↓

thank you (for the hardware) ↓

why wouldn't we? ↓

↓

because that's the only real reason to join a telematics-project ↓

just because these names go really well together.. ↓

seems like it's far more interesting than "deytabeysis" + plus we can keep the board for as long as we are working on it

## 2 Task-Division

↓ Task-Division aka "boring slide" ↓

we had help planning the steps before the project even started ↓

if only we had read them also... ↓

we asked for the hardware early and having the board and a linux-port really helps ↓

get something to run ↓

build "something" the RIOT-style ↓

interrupts are enabled ↓

stdio is somehow nice to have ↓

there are two.... ↓

have wiki pages in our github-fork ↓

these points really don't make sense in any other order ↓

the team urged us not to try to do too much and we were very conservative with the dates

↓ Milestones - Original these are the milestones —let them read a bit— identify re-useable code: panic mode!

learn about interfaces in RIOT: skipped this and ran straight to adjusting the code of the SDK

## 3 Outcome

↓ Outcome ↓

but.. ↓

we have working code that is in an "interesting" state

↓ Problems - documentation or: did everything work as expected? short answer - as with every project: no (or nöööö) while gathering documents we were

expecting something like a straight-forward memory-map like we were used to from the micro-processor-lab ↓  
warning: the ugliness of these slides depicts the ugliness of having to find out these things the hard way ↓

⇓ Problems - reference code ↓

which is kinda sad. They have targeted mainly android development and a bit of linux ↓  
is spaghetti. we don't dare think about how our code would look like if be based it on spaghetti. ↓  
which you can only use if you have valid configuration file which in turn can only be created and generated code from with a windows-only-tool

⇓ Problems - different abstractions ↓

then there is a problem of different abstractions in the SDK and in RIOT ↓  
CPU, interrupt-controller ↓  
driver for UART and timers (which in RIOT belong to the CPU) or ethernet and USB ↓  
iomux-configuration, register definitions (depending on the kind of i.MX6 - SL - SDL - D) ↓

We should we include the SDK ?

⇓ Demo DEMO (of `printfs` and flashing LEDs)

⇓ PRs At the time of writing we have one failed, a successful and another pending pull request: This would have allowed using LD for linking by changing the global Makefile and the Makefile of any board not using LD (so far: all except the RIOTboard). This basically does the same as #1355 but leaves other Makefiles untouched and assuming GCC to be used by default. Boards using LD have to explicitly supply a variable. It's purpose is to bring the software-project to a conclusion and add support for the riotboard and the i.MX6-SDK.

## 4 Future

⇓ Perspectives

⇓ Questions?