

AN INNOVATIVE WAY TO PROVIDE VALUE-ADD SERVICE AT PRE-BOOT STAGE

Agenda

- Why do we need pre-boot service?
- Existing solutions
- The innovative way
- How it works
- Status and roadmap
- Q & A

Why do we need pre-boot services?

Value-add services during pre-boot stage is trending, especially in IoT and embedded world. E.g. :



Face recognition



Security



Manageability

Current pain points

The more we want the pre-boot services, the more pain we will get



Live transition to target OS after the pre-boot service, no reboot required



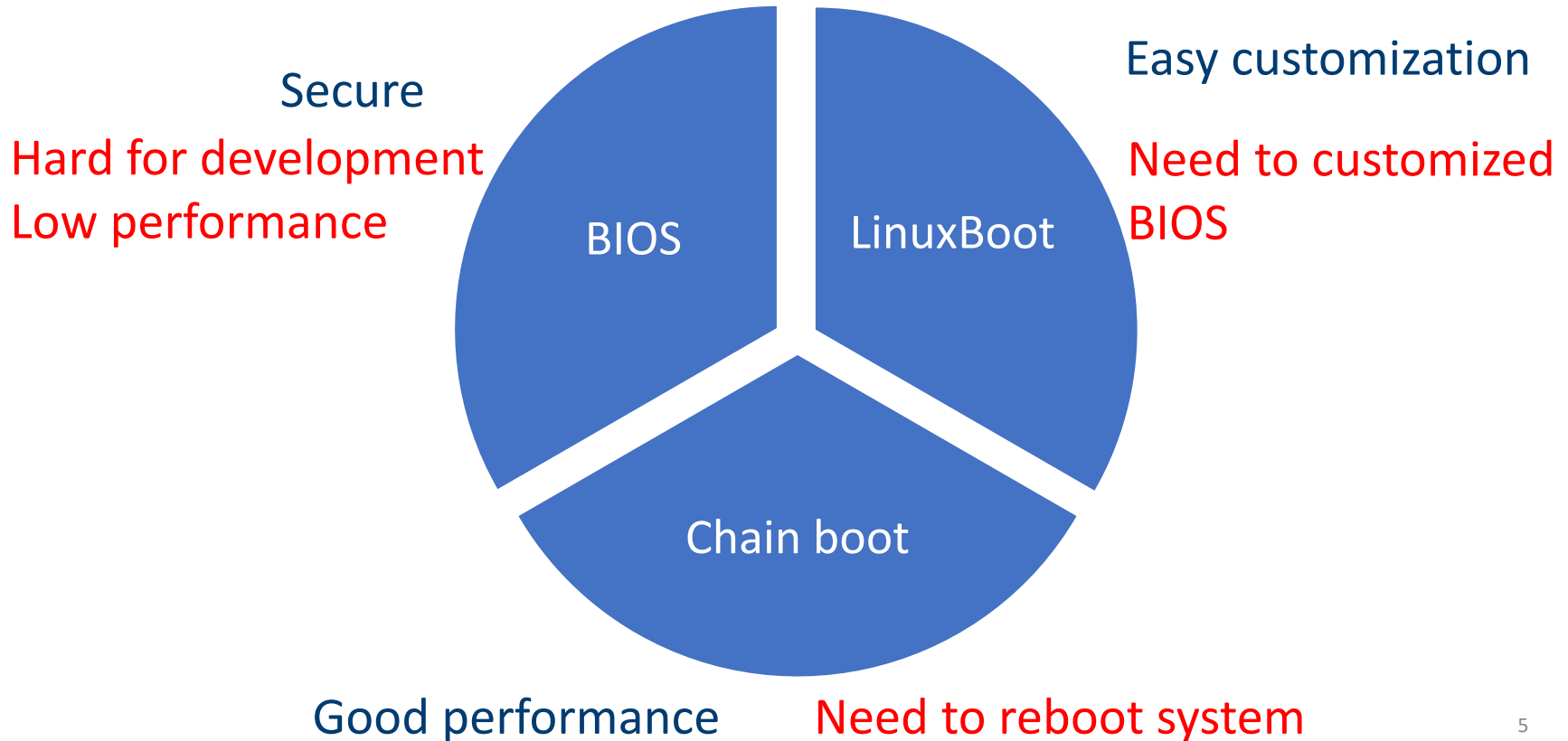
Current software system:

AI, multi-task, etc.

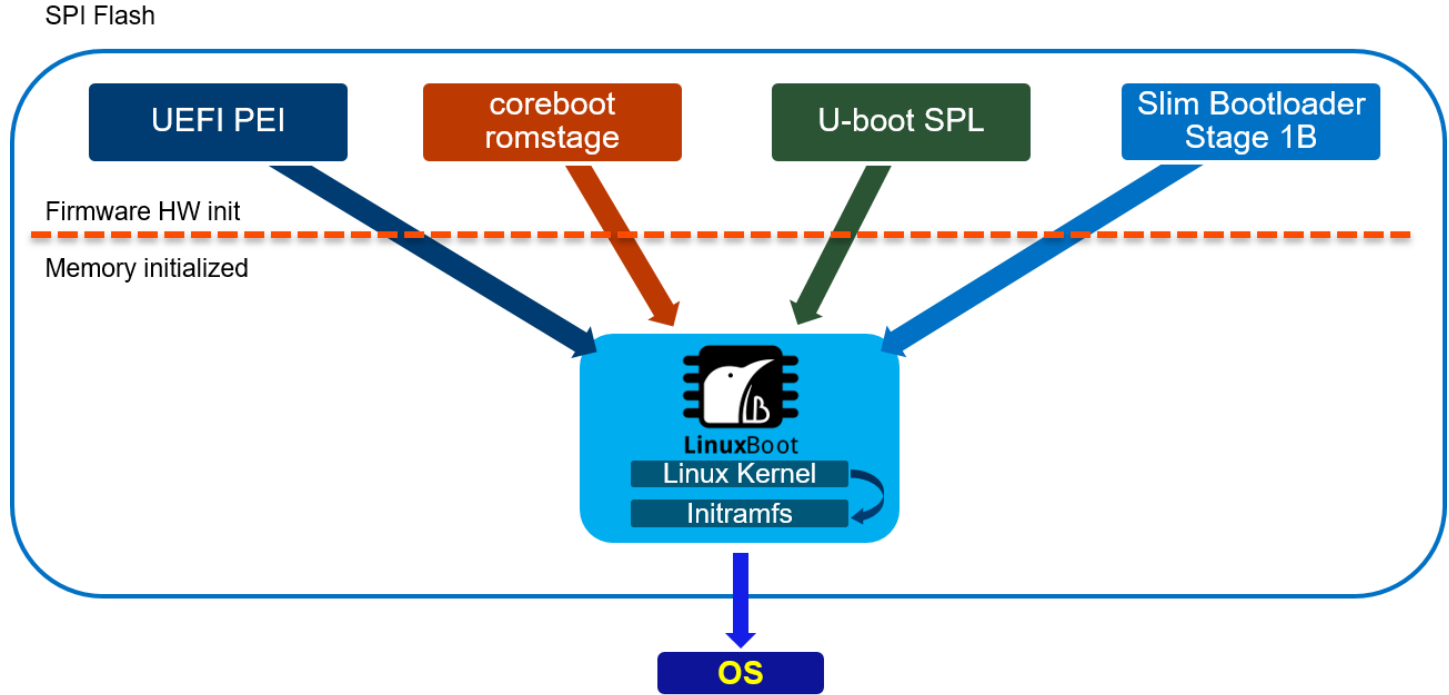
High performance peripherals:

Network card, graphic card,
camera, etc

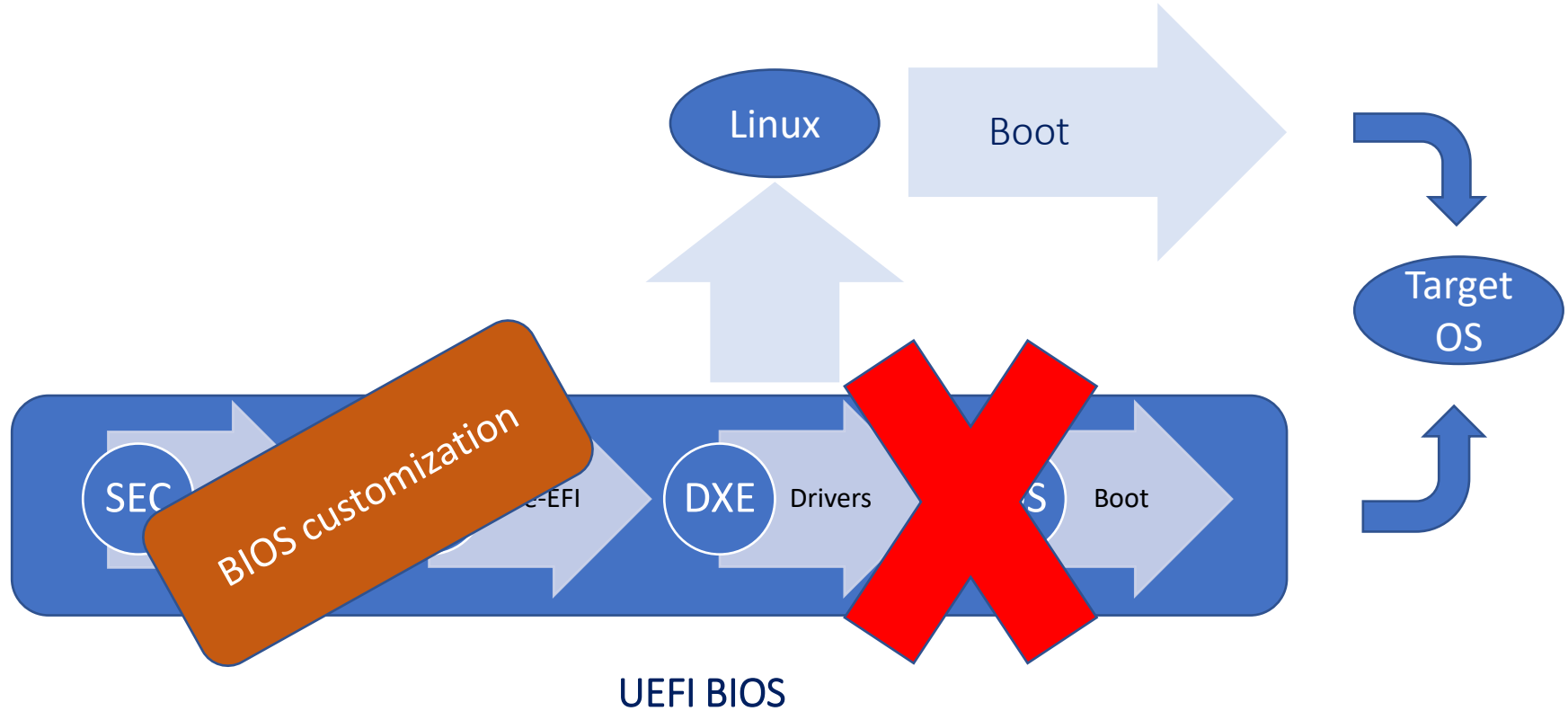
Existing Solutions



LinuxBoot



Workflow

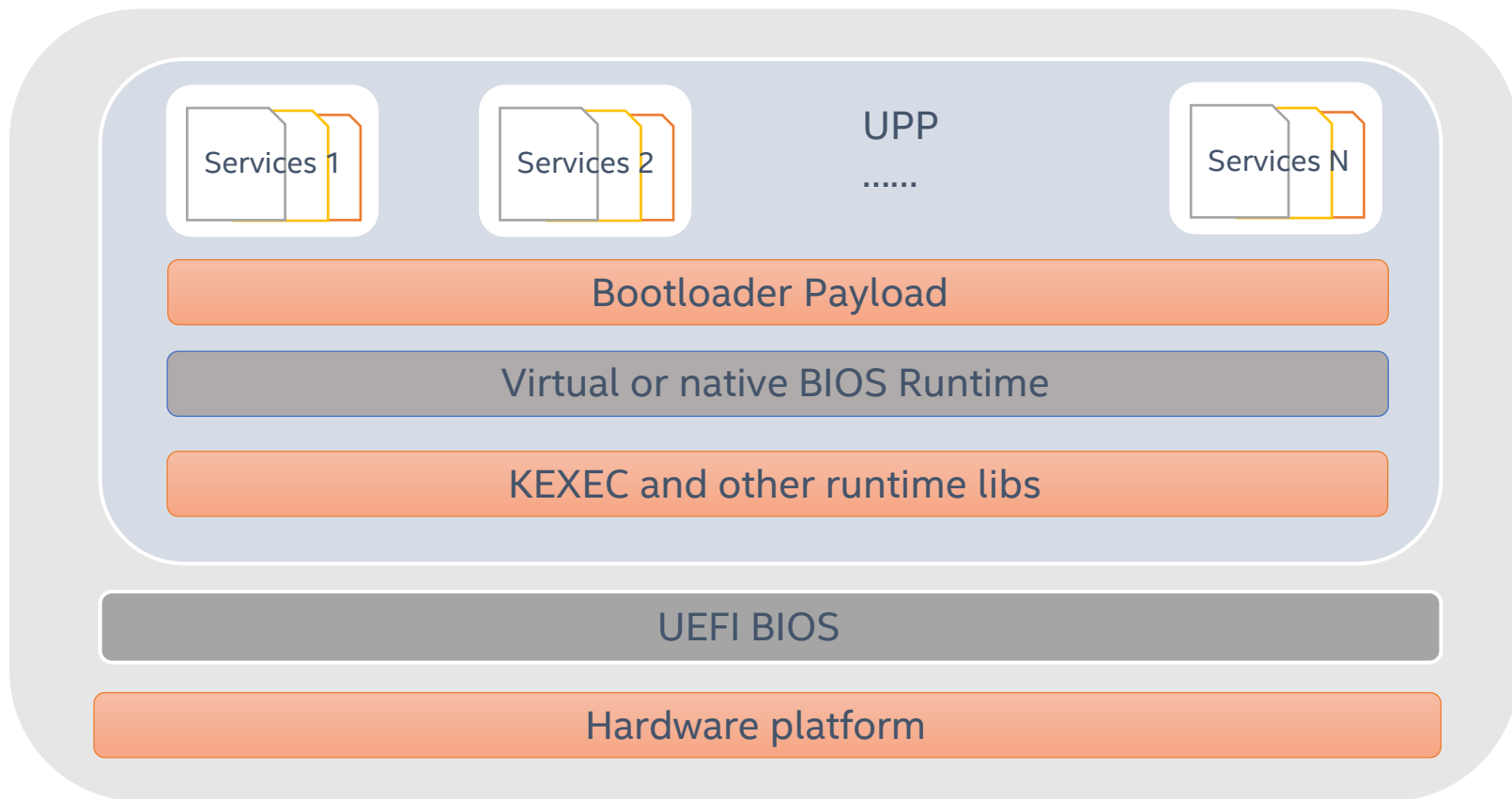


Re-think it in an innovative way...

How to:

- **Provide a generic and scalable running environment**
 - ✓ Support multi-threading complex tasks and high-performance drivers
 - ✓ Easy to adapt to latest platforms
 - ✓ Cloud service model
- Remove the redundant system reboot just as chain boot does today
- Support all kinds of target OS and minimize the development effort
- Achieve high scalability & manageability
 - ✓ Leverage onboard BIOS to solve the platform compatibility issue

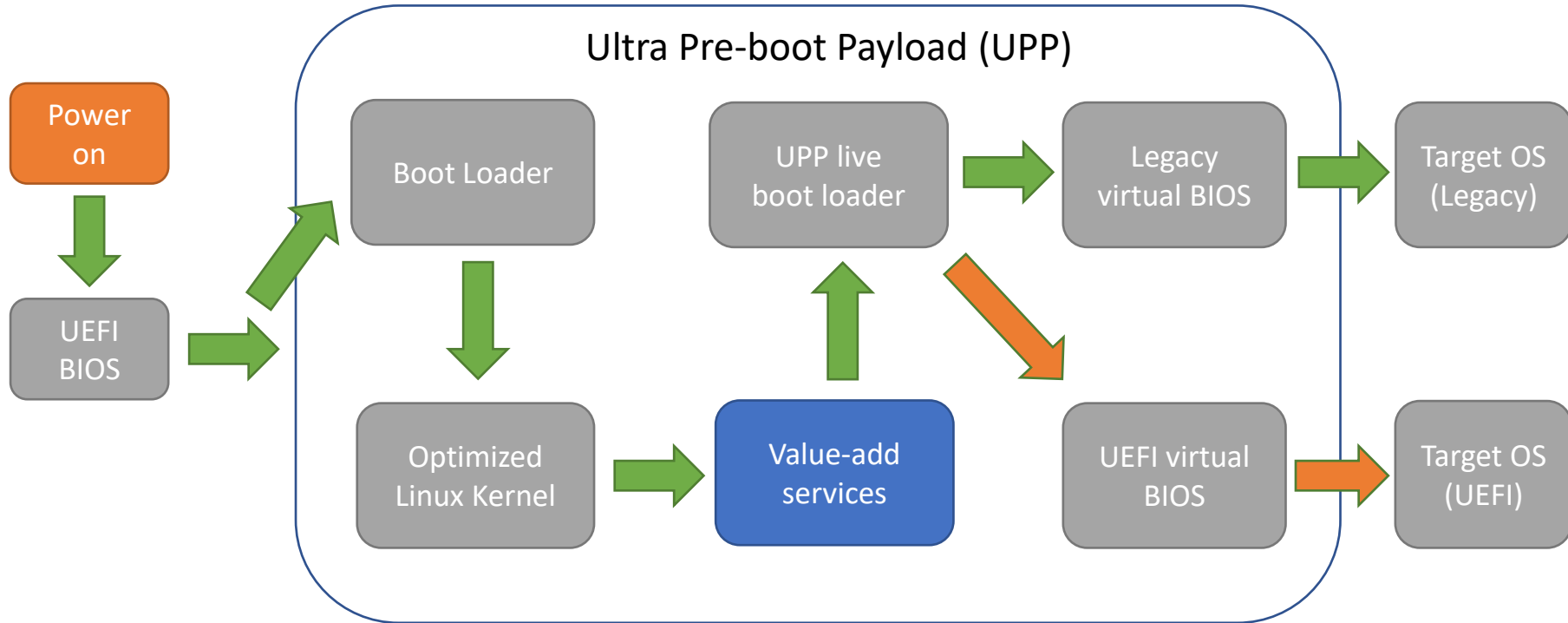
Our solution: Ultra Pre-boot Payload (UPP)



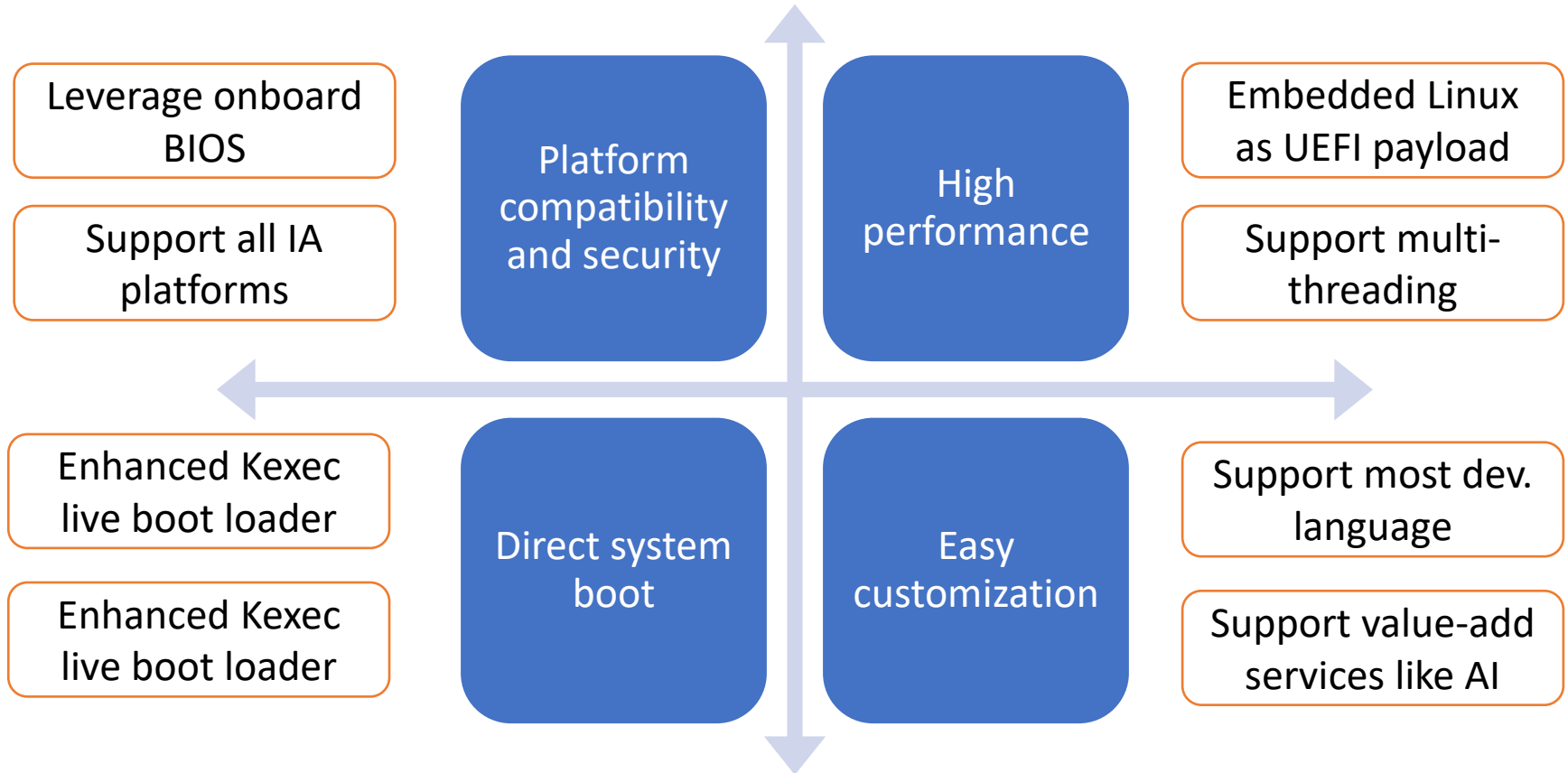
Platform compatibility



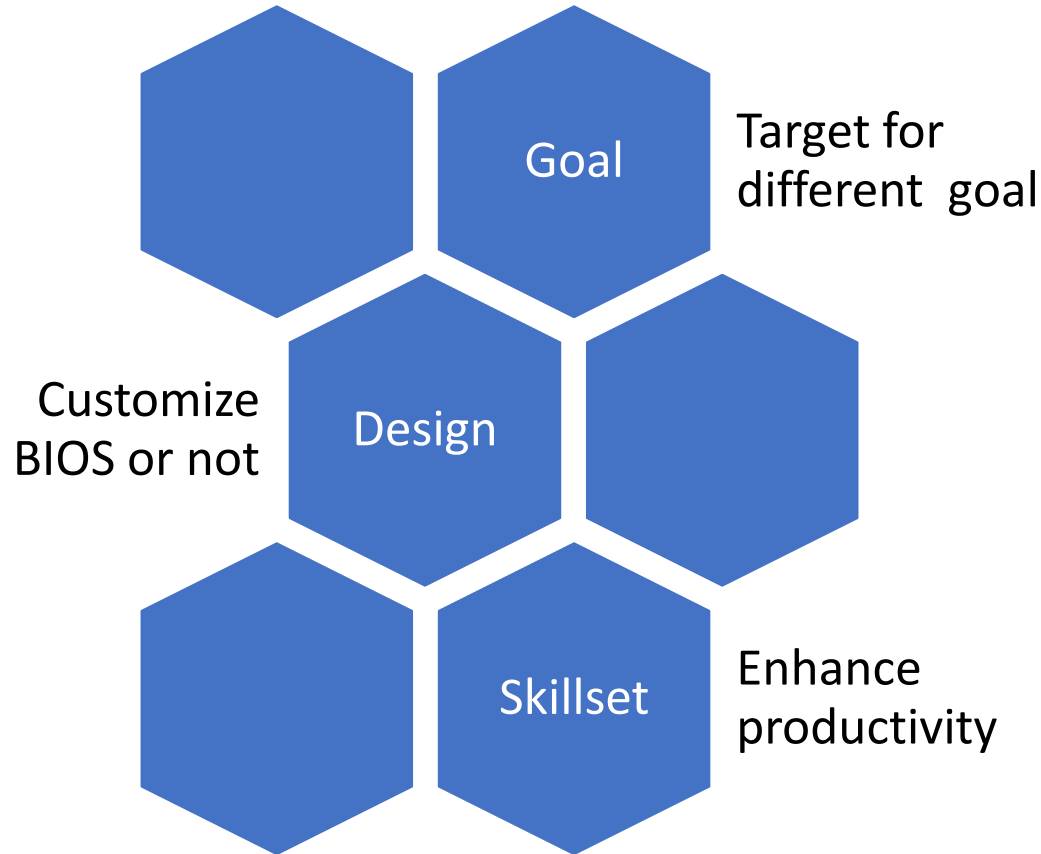
A little deep dive



Key challenges and implementation



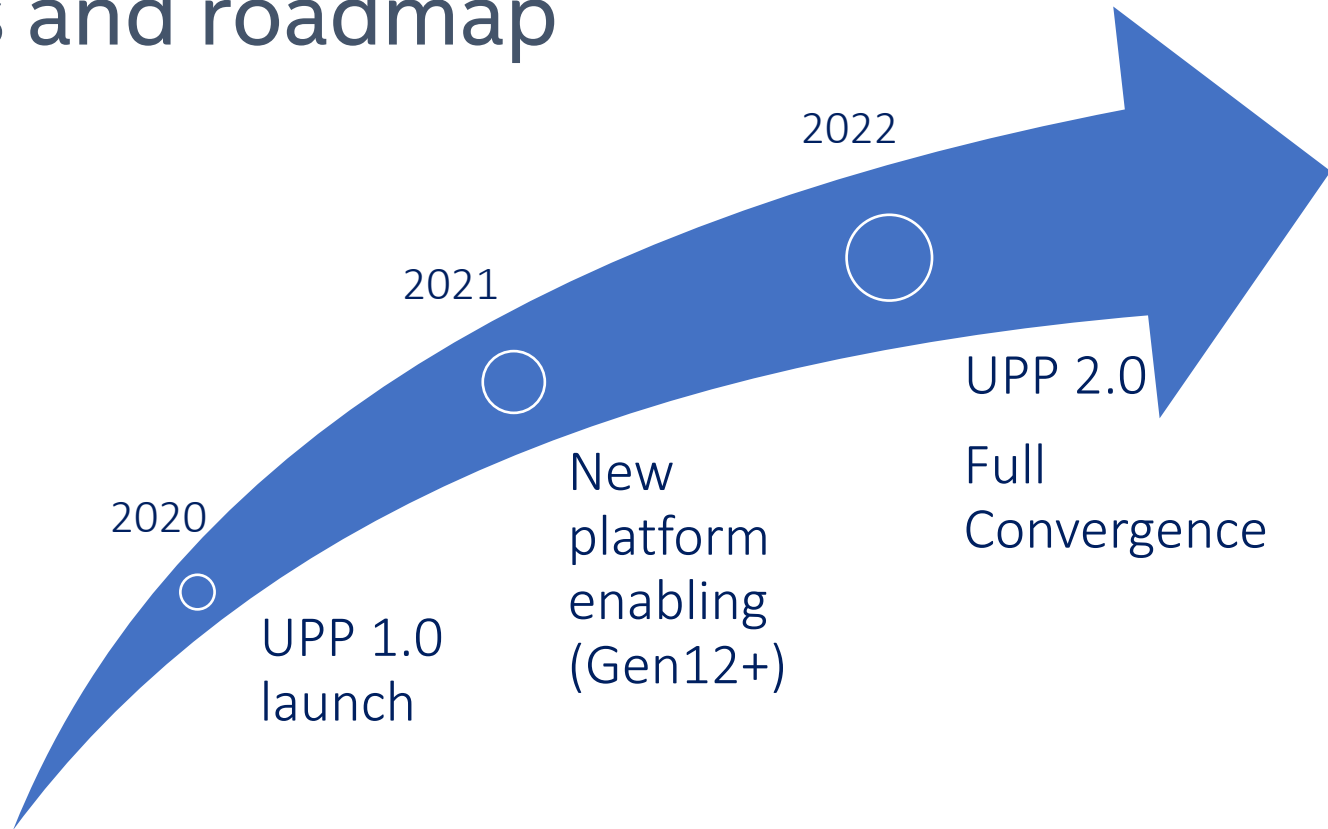
Compare between UPP and LinuxBoot



In summary



Status and roadmap



Q & A

Thank you !