

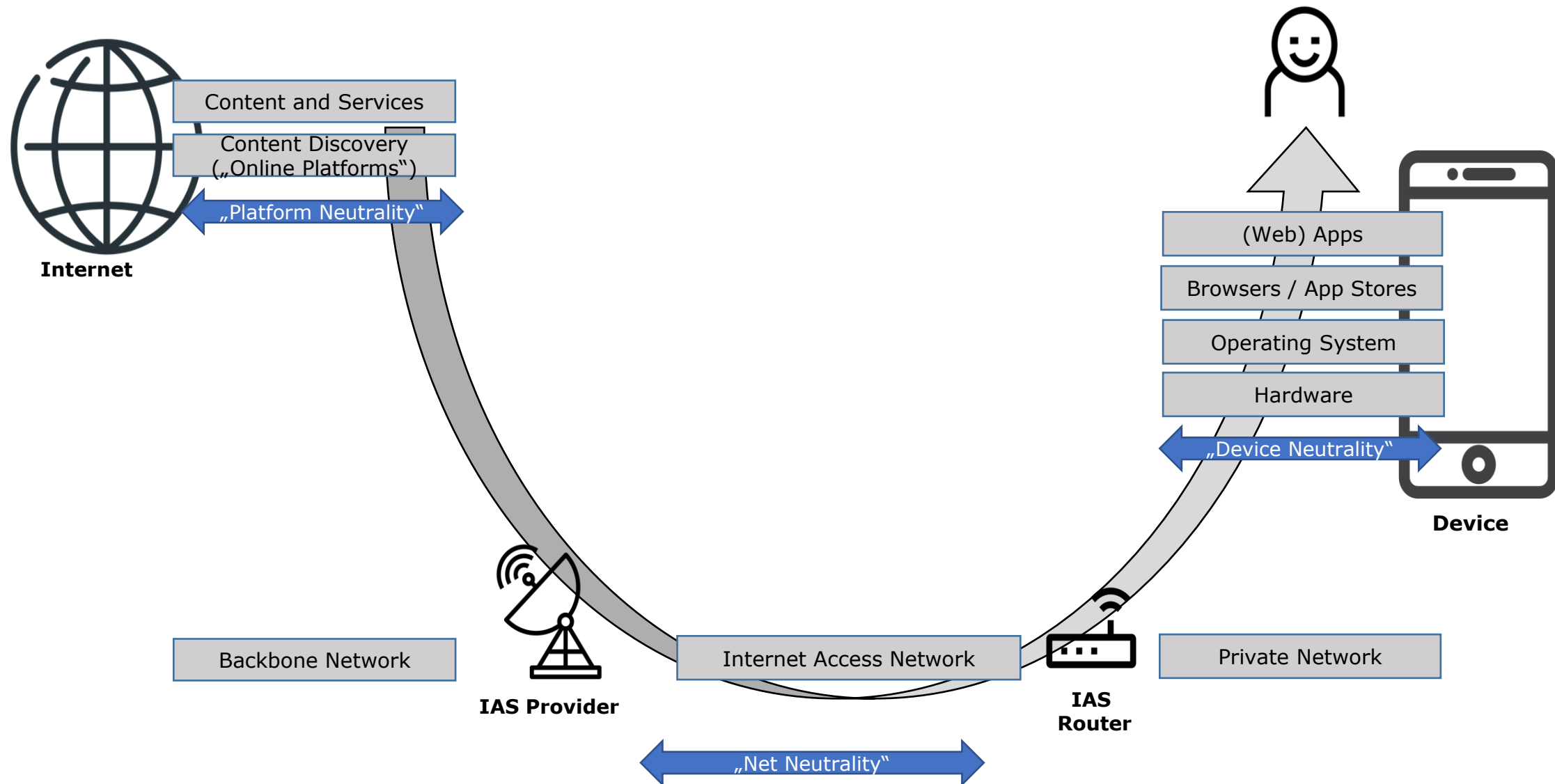
Fostering contestability: Web based apps, sideloading and alternative app stores

Prof. Dr. Jan Krämer

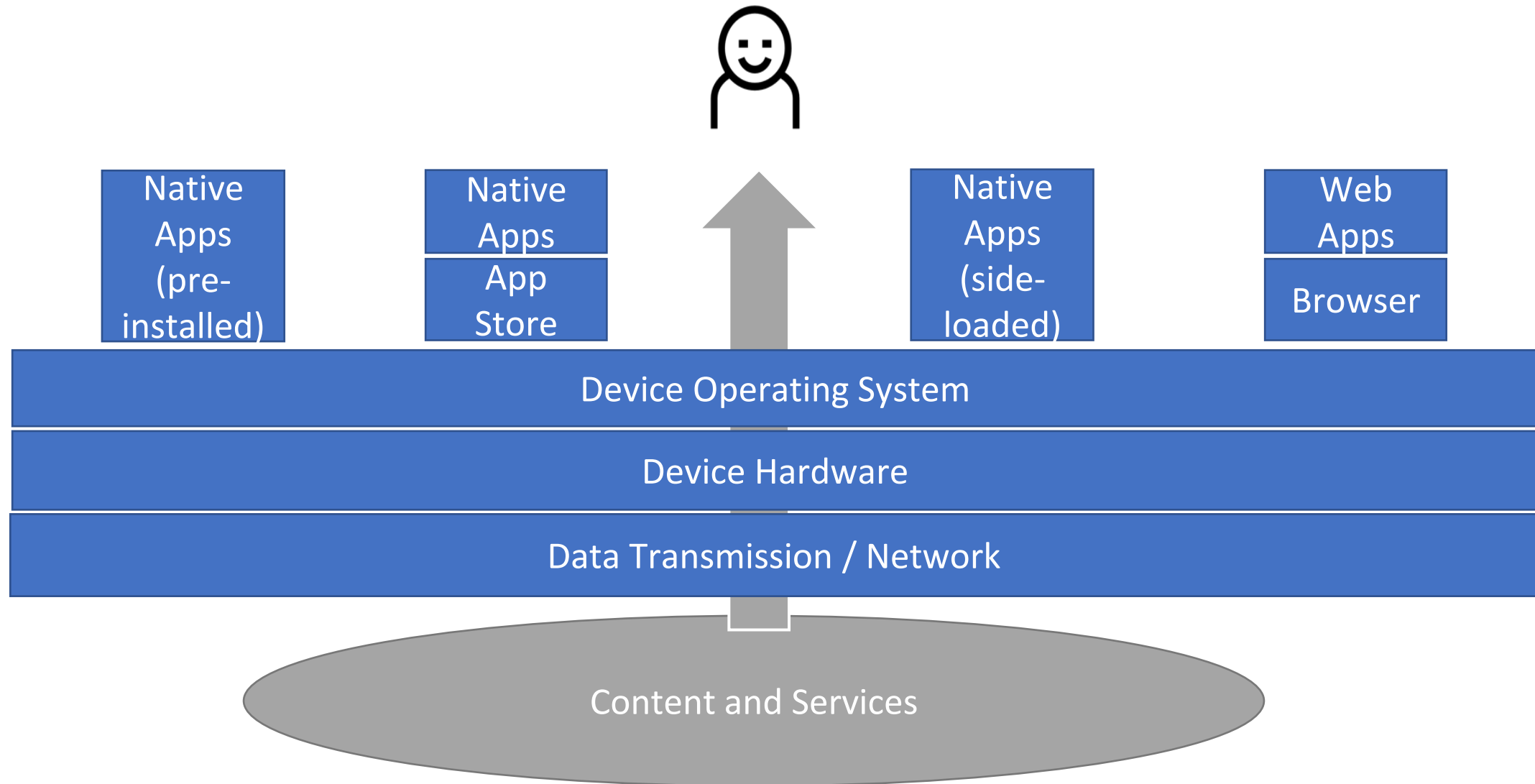
University of Passau and CERRE

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Consumers need to pass through several „gatekeepers“ in order to access content and services online



**Content and services can reach consumers through various distribution channels:
Native apps through pre-installation, app stores or sideloading, and (progressive) web
apps through browsers**



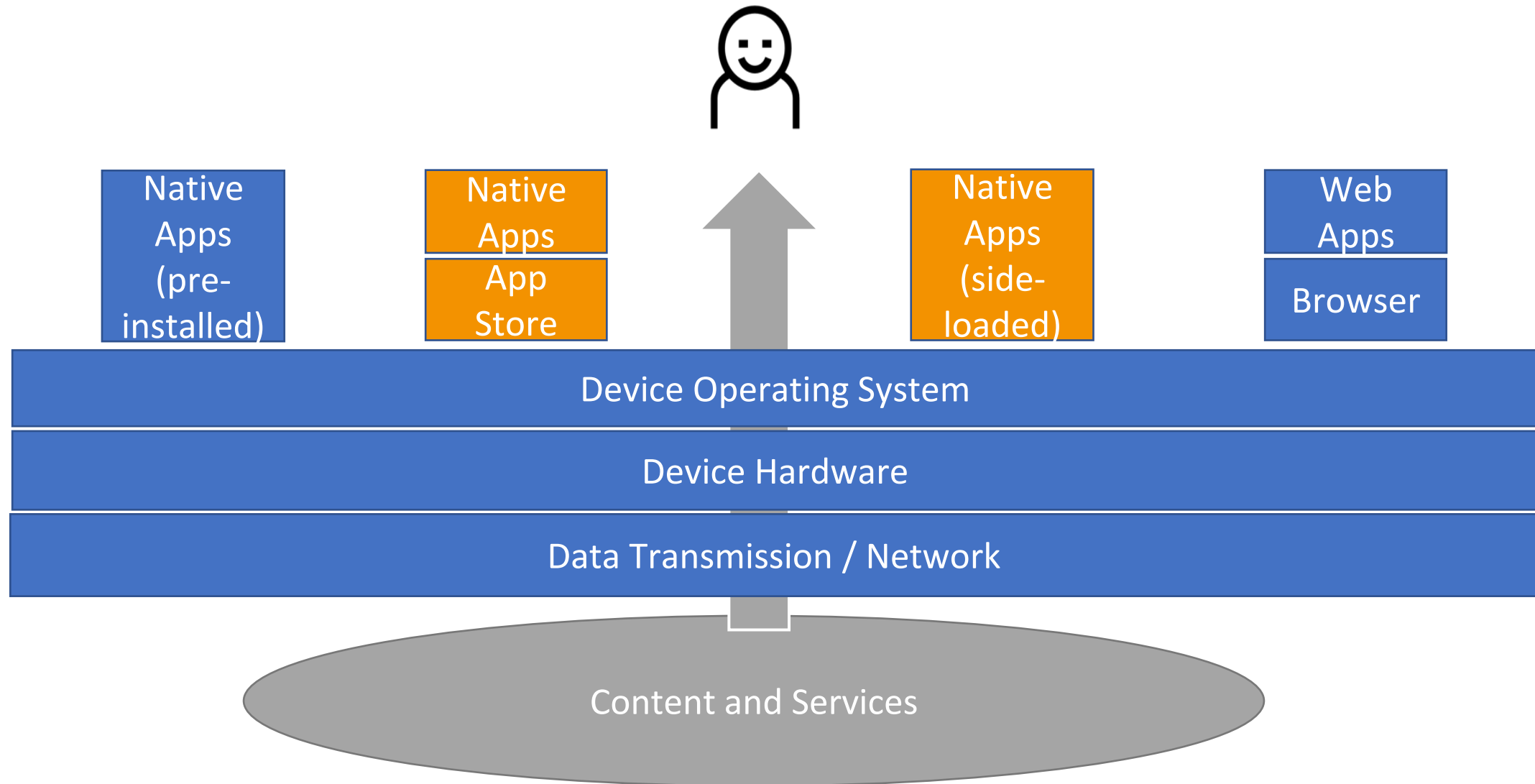
Art. 6 (4)

- The gatekeeper shall allow and technically enable the **installation and effective use** of
 - **third-party software applications** or
 - **software application stores**using, or interoperating with, its operating system
and allow those software applications or software application stores to be **accessed by means other than the relevant core platform services** of that gatekeeper.

- User must be able to set alternative apps and app stores as default.

- Gatekeeper can take strictly necessary, proportionate, and duly justified measures to protect security and integrity.
 - *Integrity*: System works as intended (correct & reliable)
 - *Security*: No unauthorized use

Art. 6 (4) enables alternative app stores and sideloading of new apps without the use of app stores, and that those apps and app stores can be set as default.



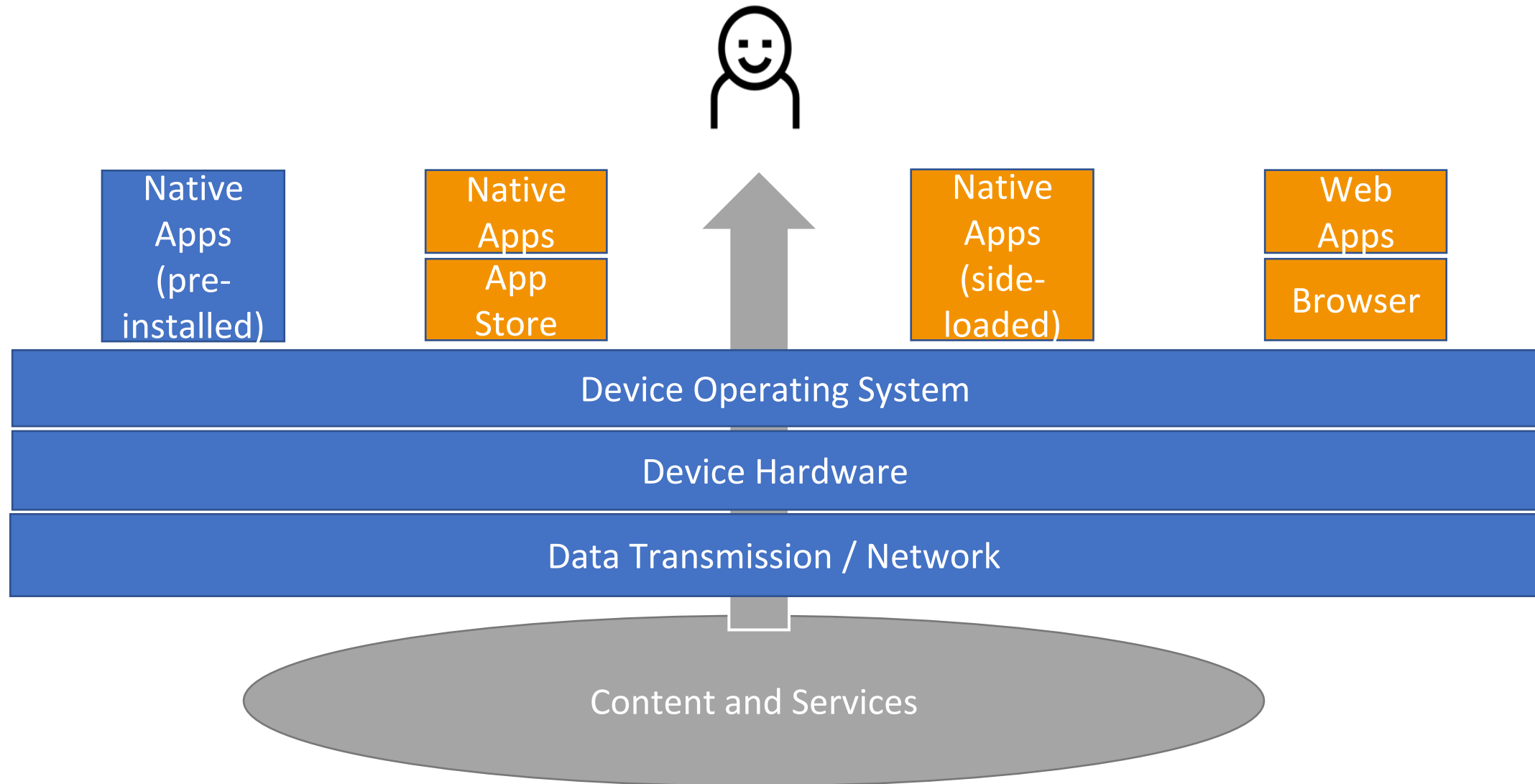
Art. 5 (7)

The gatekeeper shall not require end users to use or business users to use, to offer, or to interoperate with,

- an identification service,
- **a web browser engine** or
- a payment service, or technical services that support the provision of payment services, such as payment systems for in-app purchases,

of that gatekeeper in the context of services provided by the business users using that gatekeeper's core platform services.

Art. 5 (7) enables alternative browser engines that may give rise to web apps with more functionalities that can rival native apps



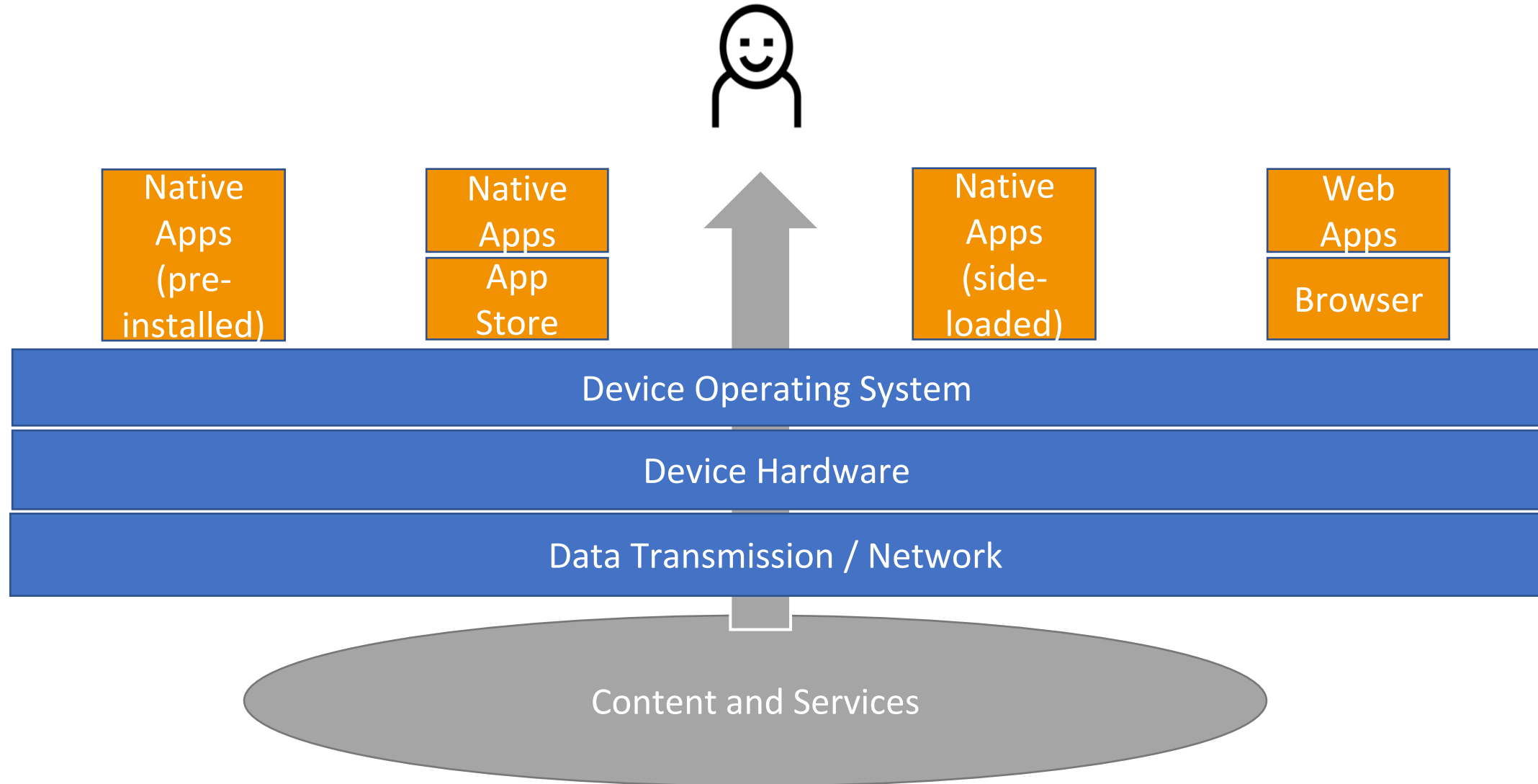
Art. 6 (3)

The gatekeeper shall allow and technically enable end users to

easily un-install any software applications on the operating system of the gatekeeper,

without prejudice to the possibility for that gatekeeper to restrict such un-installation in relation to software applications that are essential for the functioning of the operating system or of the device and which cannot technically be offered on a standalone basis by third parties.

Art. 6 (3) enables un-installation of pre-installed apps, which lowers the implied costs for installing alternative apps

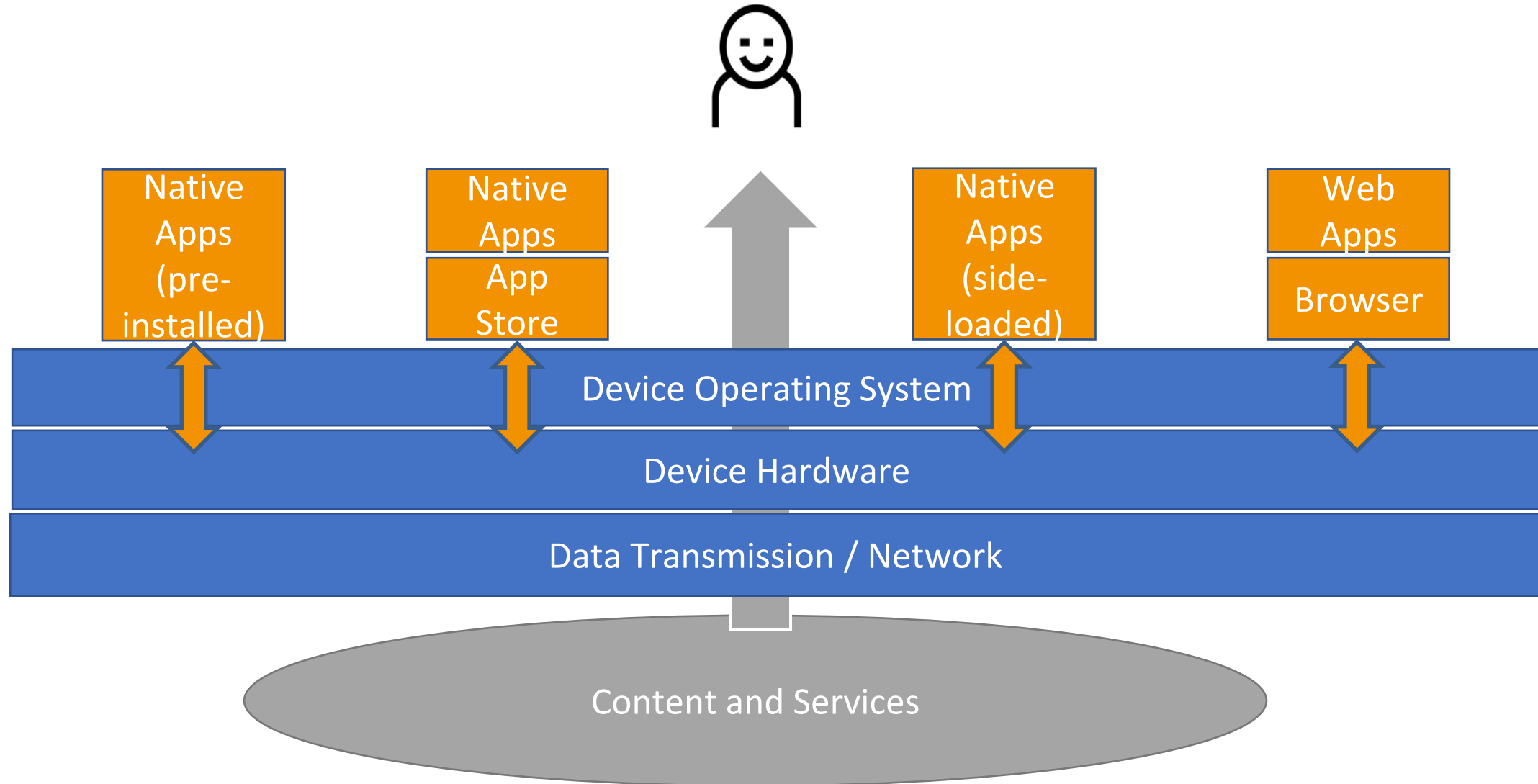


The DMA demands „equivalence of inputs“: The gatekeeper has to provide access to functionalities of the OS in the same way as are available to the gatekeeper.

Art. 6 (7)

- The **gatekeeper shall allow providers of services** and providers of hardware, free of charge, effective interoperability with, and **access** for the purposes of interoperability to, **the same hardware and software features accessed or controlled via the operating system [...] as are available to services or hardware provided by the gatekeeper.**
- The gatekeeper shall **allow business users and alternative providers of services** provided together with, or in support of, core platform services, free of charge, **effective interoperability with, and access for the purposes of interoperability to, the same operating system, hardware or software features**, regardless of whether those features are part of the operating system, **as are available to, or used by, that gatekeeper when providing such services.**
- Strictly necessary, proportionate, and duly justified measures can be taken to protect security and integrity.

Art. 6 (7) ensures that alternative apps (including app stores and browser) have the same access to OS and hardware functionalities as (pre-installed) apps by the gatekeeper



Thank you!



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