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BHAROS

BharOS Operating System and Its Significance

This article covers "Daily current events "and the topic is about 'BharOS' which is in news, it covers the "Government policies and interventions" In GS-2, the following content has relevance for UPSC.

For Prelims: About BharatOS operating system, Atamanirbhar Bharat
For Mains: GS-2, BharatOS and its significance

Why in news:
The BharOS was recently created by an incubated company- IIT Madras.

ABOUT BHAROS OPERATING SYSTEM

- Like Android or iOS, it is a native mobile operating system (OS). It emphasizes security and privacy.
- A mobile operating system, such as Android by Google or iOS by Apple, is a piece of software that serves as the main user interface on a smartphone and makes it easier for users to interact with their device and access its functions while maintaining their safety.
- By providing an OS environment that is secure for users located in India, BharOS helps forward the idea of an independent India, or "Atmanirbhar Bharat."
- Currently, BharOS Services are being offered to businesses with high privacy and security needs, whose users manage sensitive data that necessitates secret communications on constrained apps, and mobile.
- Such consumers require private 5G networks with access to private cloud services.

FEATURES

Native Over the Air

- BharOS would provide Native Over the Air (NOTA) updates, which means that security upgrades and bug patches would be installed automatically as opposed to requiring users to check for and apply updates on their own.

No Default Apps

- With this mobile operating system's No Default Apps (NDA) feature, users are not required to keep or use the pre-installed apps.
- NDA is essential because many of the pre-installed programs that come with other smartphones today can bog down the device or drain the battery by functioning as bloatware.
- The decision to utilize an NDA architecture for BharOS was deliberate since it will provide customers greater flexibility over the mobile apps they install and the type of data they save on their devices.

Private App Store Services (PASS)

- It will make use of a mechanism known as PASS, which will inspect and select only user-safe apps.
- Other apps may be used by users so long as they adhere to BharOS' PASS requirements.

SIGNIFICANCE

- By promoting the use of locally created technology, the project hopes to lessen smartphones' reliance on foreign operating systems.
- Establishing a native environment and an independent future is a giant step forward.
- It aims to put India on par with the select few nations that already have these capabilities.

DIFFERENCE BETWEEN BHAROS APART AND GOOGLE ANDROID

- BharOS resembles Google Android in certain ways because it is built on the Android Open-Source Project (AOSP). However, unlike standard Google Android phones, it does not come preloaded with Google services. Therefore, BharOS users are not compelled to download any programs; rather, they are free to do so.
- Chrome is frequently set up as the default browser on Android devices running stock OS. The creators of BharOS want to work with DuckDuckGo as its primary browser.
- DuckDuckGo is a privacy-focused browser with a number of privacy-focused features like Privacy Grade and anonymous surfing mode.

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