



India Stack Knowledge Exchange 2022

For Prelims: Digital India, Digital Schemes of India

For Mains: Role of Digitisation in economic growth, Effect of digital schemes on economy of India, Significance of platforms like India Stack Knowledge Exchange Programme

Why in News?

As a part of the [Digital India](#) week celebrations, a three day dedicated event titled '**India Stack Knowledge Exchange**' programme was organised.

- India Stack refers to ambitious project of **creating a unified software platform to bring India's population into the digital age.**

What is the India Stack Knowledge Exchange Programme (ISKE)?

- **About:**
 - The idea behind ISKE 2022 was to get the real practitioners - **the IT champions** - to speak of the **implementation of ground-breaking projects, the challenges faced and the road ahead for these projects.**
 - ISKE 2022 was also visualised to present to the global community, **India Stack solutions and goods**, and welcomed **any nation to adopt and customize them for their own use.**
- **Significance:**
 - The event brought together **practitioners** and **digital transformation leaders** to share their experiences in implementing pioneering projects.
 - It helped in the formation of an **India Stack Knowledge Exchange.**
 - It served as a **collaborative platform** for the replication of some of the digital initiatives.
 - It served as a **knowledge exchange platform** for India to speak of its contribution to the repository of [Global Digital Public Goods](#).

What were the areas covered in ISKE?

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| Urban Stack: | <ul style="list-style-type: none">▪ Smart Cities Mission:<ul style="list-style-type: none">◦ SCM is a Centrally Sponsored Scheme, launched in June 2015 to transform necessary core infrastructure and clean and sustainable environment to their citizens through the application of "Smart Solutions".◦ The mission aims to meet the aspirations of India's population living in cities through various projects.▪ Digital Infrastructure for Governance, Impact and Transformation (DIGIT):<ul style="list-style-type: none">◦ DIGIT is a platform which is open source and open API (Application Program Interface) for developers, enterprises and citizens to build new applications and solutions.◦ The ready to use platform helps achieve quicker implementation timeframes and process improvements, accountability and transparency at various levels of government.◦ It is a manifestation of Societal Platform thinking, a systemic method to resolve |
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| | <p>speed, at scale, sustainably.</p> <ul style="list-style-type: none"> • Societal Platforms are manifestations of Societal Thinking, a system-specific design principles, to reimagine social problems, redesign of society and induce exponential social change. <ul style="list-style-type: none"> ▪ India urban data exchange: <ul style="list-style-type: none"> ◦ IUDE has been developed in partnership between the Smart Cities Mission and Bengaluru. ◦ It is an open-source software platform which facilitates the secure, authentication amongst various data platforms, 3rd party authenticated and authorised applications. |
| <p>Technology Stack for e-Commerce</p> | <ul style="list-style-type: none"> ▪ GeM Portal: <ul style="list-style-type: none"> ◦ The Government e-Marketplace one-stop National Public Procurement Portal for common use Goods & Services required by various Central and State Government Sector Undertakings (PSUs). ◦ The procurement of goods and services by Ministries and the Central Public Sector for goods and services available on GeM. ◦ It also provides the tools of e-bidding and reverse e-auction to facilitate the get value for their money. ▪ Open Network for Digital Commerce: <ul style="list-style-type: none"> ◦ ONDC is a freely accessible government-backed platform that aims to move from a platform-centric model to an open network for buying and selling. ◦ It is a not-for-profit organisation that will offer a network to enable local industries to be discovered and engaged by any network-enabled applications. ◦ Under ONDC, it is envisaged that a buyer registered on one participating e-commerce platform (Amazon) may purchase goods from a seller on another participating e-commerce platform (Flipkart). |
| <p>Space Technology Stack:</p> | <ul style="list-style-type: none"> ▪ NavIC: <ul style="list-style-type: none"> ◦ Navigation in Indian Constellation (NavIC) is an Indian Regional Navigation system by the Indian Space Research Organization (ISRO). ◦ The main objective is to provide reliable position, navigation and timing services. ◦ It has been certified by the 3rd Generation Partnership Project (3GPP), a global telephony standards. ▪ Visualisation of Earth Observation Data and Archival System (VEDAS): <ul style="list-style-type: none"> ◦ VEDAS provides a platform to motivate young researchers and academia to use analytical skill using Indian Earth Observation data and build geo-spatial applications. ◦ It is a step toward expanding the societal benefits of the nation's investment in space. ◦ It is expected that with a handshake between data generators and potential data users, processing tools and geo-spatial applications will emerge. ◦ It provides: <ul style="list-style-type: none"> • Platform for Research & training to Academia • Data visualization and graphical analysis on web • Geo-processing tools for analysis on web • Integrate Web Map Service from various sources ▪ Meteorological & Oceanographic Satellite Data Archival Centre (MOSDAC): <ul style="list-style-type: none"> ◦ Space Applications Centre (SAC) is an ISRO Centre located at Ahmedabad which focuses on themes from satellite payload development, operational data reception and geo-spatial applications. ◦ Meteorological and Oceanographic Satellite Data Archival Centre (MOSDAC) is an Applications Centre (SAC) and has facilities for satellite data reception, processing and archiving. ◦ MOSDAC is operationally supplying earth observation data from Indian meteorological satellite to cater to national and international research requirements. ▪ Bhuvan, Bhoonidhi & Yuktdhara: <ul style="list-style-type: none"> ◦ Bhuvan: <ul style="list-style-type: none"> • Bhuvan is a type of web portal used to find and access geographic information and associated geographic services (display, editing, analysis, etc.) via a web browser. ◦ Bhoonidhi: <ul style="list-style-type: none"> • It enables access to an extensive archive of Remote Sensing data from Foreign Remote Sensing sensors acquired over 31 years. ◦ Yuktdhara: <ul style="list-style-type: none"> • It is a geospatial planning portal meant for facilitating Gram Panchayat level planning. |

across India.

- It integrates a wide variety of spatial information contents to enable a using open source **GIS** tools.

Source: PIB

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