

## OPEN CREDIT ENABLEMENT NETWORK

Overview of the ecosystem and its capabilities

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### Acknowledgements

### **About the Authors**

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## **EXECUTIVE SUMMARY**



### India's Digital Lending Market – The Status Quo

The Indian digital lending market is expected to grow at a Compound Annual Growth Rate (CAGR) of 38%, and reach US \$350 billion by 2023 as a result of improved digital financial inclusion. While the demand for credit has increased, a sizable segment of consumers, including individuals, organisations and small businesses, remain underserved. For instance, the MSME sector which generates a significant proportion of India's credit demand is facing a credit gap of US \$330 billion.

India's credit demand remains unmet due to obstacles faced by both borrowers and lenders.

#### Obstacles at the supply end:

- Complex and lengthy application processes lead to high turnaround times for loan applicants.
- Disadvantaged borrowers with few or no assets have a low likelihood of obtaining credit as formal lending institutions require collateral for security against loans.

#### Obstacles at the demand end:

• Banks struggle to increase their consumer base due to high operational costs, leading to limited last mile connectivity.

### **Open Credit Enablement Network (OCEN) – An Overview**

In light of these obstacles, the government intends to digitise the entire lending process through the Open Credit Enablement Network (OCEN). The OCEN – along with the Account Aggregator (AA) Network consisting of platforms which facilitate sharing of financial data – is the most recent addition to India Stack (developed to facilitate a digital payments ecosystem).

The OCEN would function as a credit layer while the AAs would function as a consent layer. The OCEN is an open protocol infrastructure that facilitates interactions between various stakeholders involved in the credit value chain through a common digital language. AAs act as intermediaries that facilitate consented sharing of financial information on a real-time basis with lenders.

This framework represents a shift in the assessment of creditworthiness from an asset-based model to one based on continuous cash flow, through the use of digital credit trails and digital sales records. The OCEN optimises the risk assessment process for lenders by easing their access to reliable financial information of borrowers. In addition, it enables lenders to reach a bigger consumer base by partnering with Non-Banking Financial Companies (NBFCs) to leverage their reach, last mile connectivity, and technical capabilities. For example, NBFCs like Muthoot Finance and Bajaj Finance serve economically marginalised consumers who cannot otherwise receive loans from inflexible commercial banks.

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#### **Use Cases**

The OCEN has the potential to increase credit access for vulnerable sections of the population, MSMEs, and first-time borrowers. It enables lending institutions to offer low-cost and sachet-sized loans to the economically marginalised, who can leverage such credit lines to reduce their daily financial burden.

The OCEN will expand options for borrowers, connecting them to more suitable lending institutions, interest rates, and repayment models rather than relying on local banks. With the OCEN, online marketplaces and digital payment platforms will act as Loan Service Providers (LSPs). So, consumers will also have access to instant credit facilities while making purchases on e-commerce platforms like Amazon, Flipkart, etc.

#### **Governance and Implementation**

To test its applicability and to ensure successful implementation, a pilot was launched facilitated by the Government e-Marketplace (GeM) portal. Two reference applications were designed for the pilot: the GeM Sahay and the GST Sahay. The GeM Sahay is a government e-marketplace platform which serves as a Loan Service Provider, while the GST Sahay app acts as a reference application (similar to BHIM for UPI). RBI provides the required regulatory support and guidance for the rollout of India Stack through two collectives, CredAll and Sahamati.

### Challenges

While the OCEN has seen significant progress, some challenges remain which may hinder its stated objectives. These include gaps in the risk assessment of borrowers, the lack of a digital trail for informal sector workers who primarily receive their wages in cash, and MSMEs' inconsistent digital cash flow due to their limited use of digital tools for financial planning. Additionally, the capacity building of Loan Service Providers, who are key stakeholders in the successful implementation of the OCEN, is of high significance.



# INTRODUCTION To the ocen



## Since the launch of the Unified Payments Interface (UPI), the government has explored similar digital public goods in other sectors.

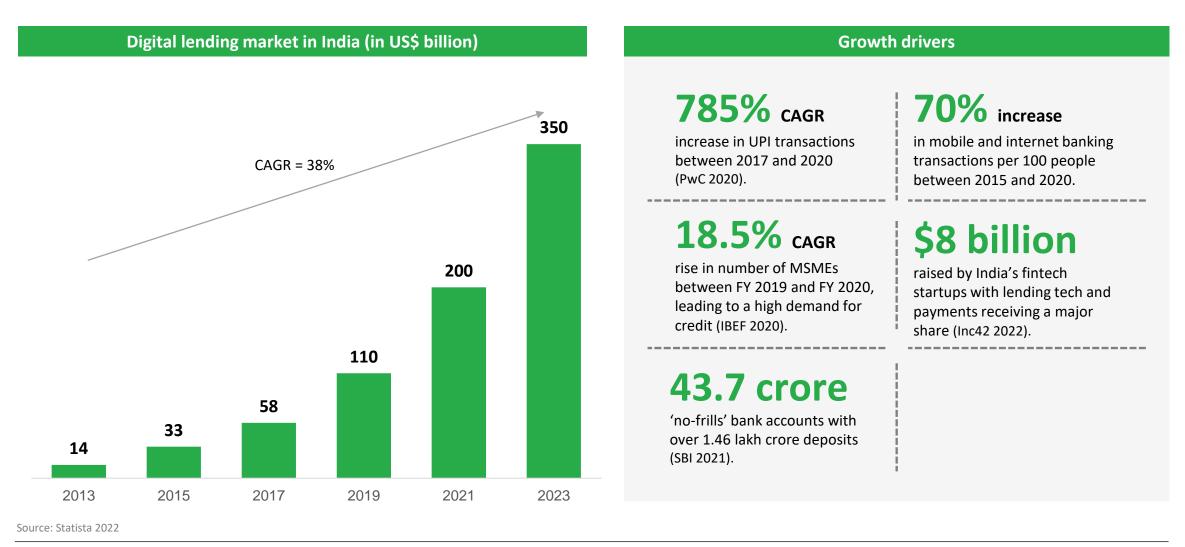
#### Background

- India has emerged as a pioneer in developing and deploying digital public goods at scale.
- It is one of the first developing countries to implement a population-scale digital ID initiative and an efficient digital payments infrastructure such as the UPI.
- Since the launch of the UPI in 2016, the government has looked to create similar digital public goods in areas such as digital lending, ecommerce, health care, and livelihoods.

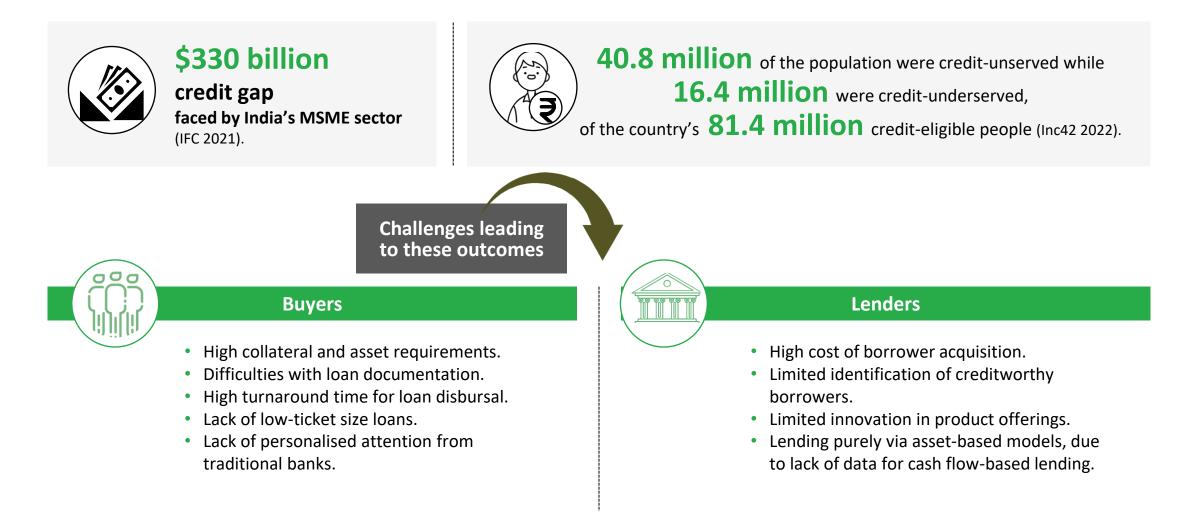
#### Context

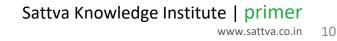
- This primer aims to provide an understanding of India Stack's lending and data sharing layers – the OPEN CREDIT ENABLEMENT NETWORK (OCEN) and the ACCOUNT AGGREGATOR (AA) NETWORK respectively.
- The objective of this primer is to:
  - Build a case for the OCEN and AA in the current lending landscape.
  - Understand the underlying principles, use cases and governance of OCEN.
  - Understand the role philanthropic organisations can play in increasing the adoption of the OCEN.

## India's digital lending market is anticipated to grow at a 38% CAGR to \$350 billion by 2023, driven by its population's growing entrepreneurial and technological capabilities.



However, India faces a credit gap of \$330 billion due to high-ticket loans, complex loan procedures, high turnaround time, limited accessibility and high-cost acquisition processes.



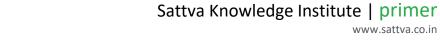


## The OCEN aims to mitigate these challenges by reducing reliance on collaterals, digitising the loan process to improve turnaround time, and introducing simpler processes for borrowers.

|        |   | Challenges  | Solutions   |
|--------|---|---|---|
|        | High collateral and asset requirements                      | Banks require proper documents and collateral as security against loans. This leads to disadvantaged borrowers' high reliance on informal lenders.  | The OCEN allows consumers to use alternate documents<br>such as GST documents, e-commerce invoices, and other<br>kinds of digital sales records to ensure creditworthiness.                                       |
| Buyers | Difficulties with loan<br>documentation                     | Banks require complex documentation like detailed<br>bank statements, income tax returns, land ownership<br>documents, business balance sheets, and for the<br>applicant to make multiple visits to the branch, which<br>is a strong deterrent for rural populations. | Loan services and offerings are plugged into marketplaces<br>and other day-to-day user applications in a simple format<br>for increased user adaptability.  |
|        | High turnaround time<br>for loan disbursal                  | Currently, the average turnaround time for<br>disbursement of loans is nearly three months<br>(SIDBI 2022).   | The digitisation of the lending value chain with the OCEN enables lesser turnaround time.   |
|        | Lack of small-ticket<br>size loans                          | Traditional lenders are unwilling to provide small-ticket size loans due to less perceived profits to MSMEs.  | The OCEN allows borrower creditworthiness to be<br>evaluated based on continuous cash flow rather than<br>through income and assets. This helps MSMEs obtain small-<br>ticket size loans with low interest rates. |
|        | Lack of personalised<br>attention from<br>traditional banks | There is a dearth of customised loan offerings for different MSMEs.   | The introduction of a loan service provider layer consisting of marketplaces and payment platforms gives visibility into end-consumer needs.  |

### It also solves challenges in the lender ecosystem by reducing processing time and operational costs, improving access to borrowers' financial data, and enabling partnerships.

|       |   | Challenges   | Solutions   |
|-------|---|--|---|
|       | High cost of borrower<br>acquisition                | Banks face heavy operational costs in serving a larger consumer base, decreasing their last mile connectivity.                             | Banks co-lend with NBFCs to leverage the latter's last mile<br>connectivity and technical capabilities. NBFCs in turn<br>benefit from the financial backup that banks provide.        |
| iders | Limited identification of<br>creditworthy borrowers | Banks highly rely on assets and collateral for lending,<br>further complicated by large organisations' strong<br>proprietary data systems. | Banks can shift from asset-based lending to cash flow-<br>based lending to benefit from a greater reach. The OCEN<br>also provides easier access to reliable borrower<br>information. |
| Len   | Limited innovation in<br>product offerings          | High operational costs associated with custom offerings limit the ability of banks to cater to specific needs.                             | The OCEN provides a common language to lenders and marketplaces to create innovative financial products.  |
|       | Costly and time-<br>consuming processes             | Connecting to consumers is a costly and time-<br>consuming process for lenders.  | The OCEN introduces e-commerce players and<br>marketplaces, whose strong consumer base facilitates<br>lender-consumer interactions, to the lending value chain.                       |



# OVERVIEW OF THE OCEN



## Credit (OCEN) and Consent (Account Aggregators) layers represent the next stage in the evolution of India Stack.

|                       | India Stack layers  | Example  |
|-----------------------|---|--|
| <b>Credit</b> layer   | The OCEN forms the credit layer, acting as an open protocol and the single<br>API or integration for credit.  |  |
| Consent layer         | The Account Aggregators constitute the consent layer, which enables<br>control of financial data sharing for users between information providers<br>and information users.  | Data Empowerment<br>And Protection<br>Architecture |
| <b>Cashless</b> layer | This electronic, interoperable payment network includes IMPS, AEPS, APB<br>and UPI and is owned by the National Payments Corporation of India (NPCI).   |  |
| Paperless layer       | The paperless layer can easily store and retrieve information digitally. It includes Aadhaar e-KYC, e-Sign and the DigiLocker, and is owned by the Ministry of Electronics and Information Technology, Government of India. | ekine bigilocker                                   |
| <b>Identity</b> layer | The identity layer is a unique digital biometric identity with open API access. It includes the Aadhaar card and Mobile Aadhaar, and is owned by the Unique Identification Authority of India.                              | AADHAAR  |



## The OCEN is an open protocol that facilitates interactions between different stakeholders in the lending value chain.

The OCEN facilitates interactions between stakeholders involved in the credit value chain by creating a common language through a set of APIs. It aims to move the lending ecosystem in India from an asset-based model to a cash flow-based model.

|               | Loan service providers<br>(LSPs)   | Technology service providers  | Account Aggregators   | Underwriting modelers   | Lenders  | Borrowers   |
|---------------|--|---|---|---|--|---|
| OCEN Actors — | <ul> <li>Any consumer-facing<br/>digital platform<br/>(web- or application-<br/>based) with a<br/>customer base.</li> </ul>                | <ul> <li>Fintech companies support<br/>the onboarding of platforms<br/>onto the OCEN protocol and<br/>to roll out tailored credit<br/>programmes.</li> </ul>  | <ul> <li>Data intermediaries<br/>that act as consent<br/>brokers, allowing<br/>lenders quick<br/>access.</li> </ul> | <ul> <li>Work to find out the<br/>level or degree of<br/>vulnerability in terms<br/>of non-payment and<br/>late payment of dues.</li> </ul> | <ul> <li>Banks, NBFCs and<br/>small finance banks<br/>provide capital and<br/>access to core<br/>banking networks.</li> </ul>                            | <ul> <li>MSMEs or individual<br/>consumers will<br/>leverage credit options<br/>available within the<br/>LSPs' platforms<br/>through secure digital<br/>processes.</li> </ul> |
| Their role    | <ul> <li>LSPs provide low-<br/>cost distribution and<br/>bring in the<br/>knowledge of the<br/>local and customer<br/>contexts.</li> </ul> | <ul> <li>Enable stakeholders to utilise<br/>the OCEN APIs along with<br/>other components of India<br/>Stack.</li> <li>Provide support with<br/>technical implementation<br/>and adoption.</li> </ul> | <ul> <li>Plug in critical<br/>digital<br/>infrastructure for<br/>lending.</li> </ul>                                | <ul> <li>Support the<br/>assessment and<br/>decoding of various<br/>raw data signals<br/>captured through<br/>digital trails.</li> </ul>    | <ul> <li>Lenders utilise the<br/>LSP infrastructure to<br/>increase last mile<br/>connectivity and<br/>provide tailored<br/>credit solutions.</li> </ul> | <ul> <li>Borrowers get<br/>connected to multiple<br/>lenders through one<br/>platform.</li> </ul>   |

OCEN is not a product or a service but a set of standards.

### The loan process, from origination and underwriting to repayment, is digitised.

| Origination  | Underwriting   | Loan selection   | Repayment schedule  | Monitoring  | Disbursal  |
|--|--|--|---|---|--|
| <ul> <li>LSPs offer a digital interface for borrowers to engage with lenders.</li> <li>This results in the digitisation of lead generation for lenders.</li> </ul> | <ul> <li>The borrowers' data is gathered through multiple sources for analysis.</li> <li>Data comes from the LSPs, creating a digital trail.</li> <li>Data from credit bureaus and identity verification utilities such as eKYC and NSDL are fetched electronically.</li> <li>Bank statements and GST invoices are pulled through the AA framework.</li> </ul> | <ul> <li>The borrower receives<br/>a list of quotes on the<br/>LSP interface.</li> <li>Once a loan offer is<br/>selected, the borrower<br/>accepts and signs the<br/>loan documents.</li> <li>The eSign digital utility<br/>can generate a legally<br/>admissible signed loan<br/>document.</li> </ul> | <ul> <li>Before loan disbursal, the borrower selects and commits to a repayment schedule.</li> <li>Auto-repayment is mandated and set up through credit card, electronic NACH mandate, or UPI e-mandate.</li> <li>OCEN APIs allow the LSP to forward a lender's repayment link to the borrower for direct payment.</li> </ul> | <ul> <li>The OCEN supports<br/>the lender with<br/>monitoring the<br/>borrower's future<br/>finances and with<br/>taking early action<br/>should they discover<br/>red flags in the<br/>borrower's behaviour.</li> <li>This is set up through<br/>the AA framework<br/>with the borrower's<br/>consent to share<br/>his/her data during<br/>the loan period.</li> </ul> | <ul> <li>The lender<br/>disburses funds<br/>to the borrower<br/>using online<br/>payment<br/>methods such as<br/>UPI or IMPS.</li> </ul> |



### This model shifts lending from an asset-based to a cash flow-based model.



### Collateral for **cash flow-based lending** through the OCEN



GST invoices

or purchase

orders.

Accounts receivable such as purchase orders and bank statements.



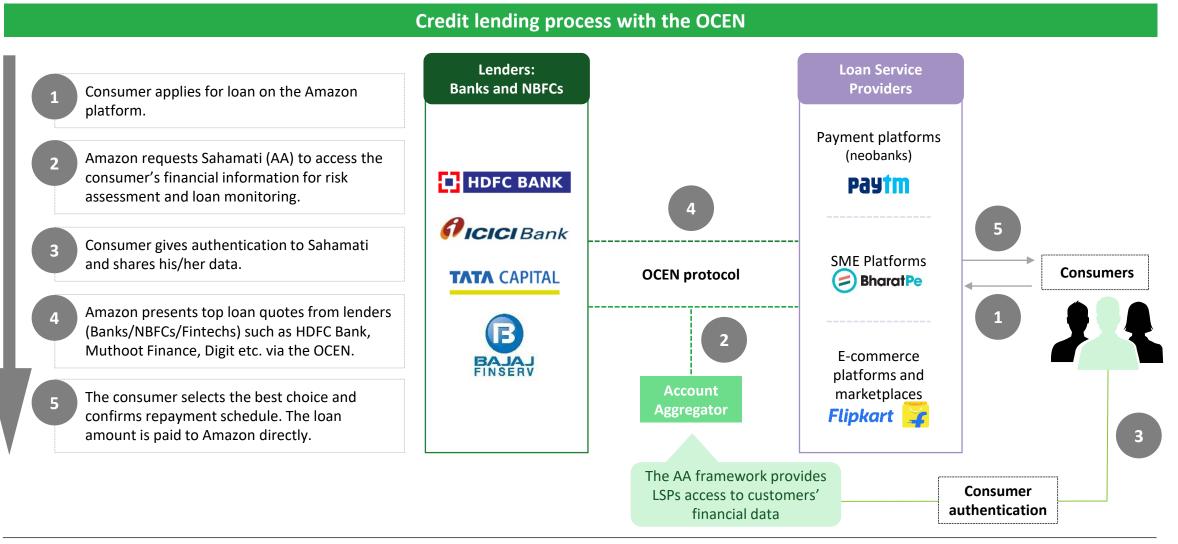
Digital trail of credit and sales from e-commerce applications.



Additionally, data from LSP platforms (Uber, Swiggy, Amazon etc) such as reviews, number of rides, number of orders etc. supplement the individual's creditworthiness.



## The OCEN revolutionises credit delivery to the end-user by introducing LSPs as new touchpoints, embedding lending within e-commerce offerings.



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### AAs facilitate consented sharing of financial information on a real-time basis to lenders, optimising the risk assessment and loan approval process.

#### Account Aggregator framework for sharing financial information **Financial information** Loan Service providers Providers The consumer (individual or business) registers with an account aggregator and links their financial data such as their bank accounts, insurance policies etc. Banks Flow-based credit (Fintech platform) The consumer applies for personal loan and financial advisory on a fintech platform. Mutual Personal finance fund house management The platform asks for the consumer's financial documents. The consumer provides consent for data Insurance sharing with the platform through the AA. Wealth 3 provider management aggregator The AA with the approved consent seeks permission platform from the consumer's bank(s) to access financial data. Tax or GST **Robo-advisors** platform Encrypted The data is shared with the financial information user information sharing 5 for a stipulated time. through AAs

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### AAs enable safe and quick access to data while facilitating greater data privacy for users.

| l   | Challenges   | Solutions   |
|---|--|---|
| Seamless and secure<br>transfer of data     | Lenders need to use downloaded bank statements or screenscape online banking profiles to extract and analyse customer data.  | Lenders can quickly access machine-readable data through<br>AAs, reducing processing cost and time, and creating a<br>standardised process. |
| Greater agency over, and privacy of data    | Borrowers are required to share all legal documentation with the lenders with no control over their data.  | With an AA, an individual or business can choose exactly<br>which data to share, with whom, for how long, and under<br>what conditions.     |
| Convenient data sharing<br>and underwriting | Lenders collaborate with multiple e-commerce<br>partners to offer loan products, resulting in<br>commercial and operational responsibilities toward<br>each loan distribution partner. | Open APIs standardise the underwriting process across players and reduces costs for lenders.  |

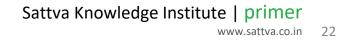


# USE CASES OF THE OCEN



## SOS Organics, a self help group (SHG) that sells organic products online, leverages the OCEN for a quick, collateral-free loan for a large purchase order to buy raw materials in bulk.

| Profile   | Current challenges  | Opportunities with the OCEN  |
|---|---|--|
|   | Cash flow-based<br>model • Faces challenges in accessing credit from<br>banks and moneylenders due to lack of<br>collateral and other assets.   | <ul> <li>Applies for a loan through the OCEN<br/>interface using their digital trail (invoices),<br/>GST invoices and recent purchase orders.</li> </ul>   |
| Name: SOS Organics         Size: 40 women         Location: Almora, Uttarakhand         Profession: SHG that sells indigenous         organic cosmetic products through | <ul> <li>Options are limited to banks in their physical vicinity.</li> <li>Required to visit multiple banks to receive and compare customised quotes.</li> </ul>                                      | <ul> <li>Selects the products and applies for a loan directly on an e-commerce platform, leading to competitive offers and interest rates.</li> <li>The group compares and chooses from a list of loan providers.</li> </ul> |
| Amazon and, recently, through their<br>own website.<br>Assets: Rents a manufacturing space and<br>equipment.  | <ul> <li>Applying for a bank loan by providing extensive documentation and waiting weeks for it to be processed.</li> </ul>   | <ul> <li>Through the AA framework, the group shares<br/>their documents with one click. The<br/>underwriting and turnaround time is reduced<br/>to less than a few hours.</li> </ul>   |
| Requirement: They have a purchase<br>order of 100 units from a corporate firm<br>and require a loan to purchase raw<br>materials.                                       | Automatic<br>repayments - After securing the loan from banks, they<br>forward the amount to the buyer for the<br>product. During the loan period, the<br>group makes regular deposits to the<br>bank. | • Through the OCEN, the amount gets<br>transferred directly to the seller's account.<br>The loan deposit is automatically deducted<br>each month from the group's business<br>account at predetermined intervals.            |



Mohan, an Uber driver, utilises the OCEN for a small sachet-sized loan; Meera, a delivery woman, pays her child's school fee through an OCEN loan; their customer reviews add to their creditworthiness.

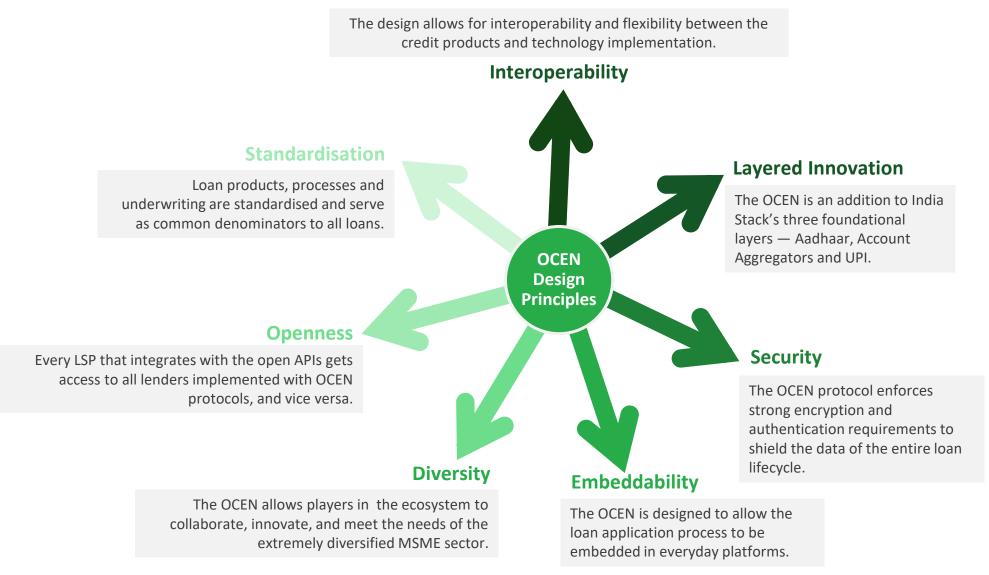
| Profile   |                               | Current challenges   | Opportunities with the OCEN  |
|---|-------------------------------|--|--|
|   | Sachet-sized loans            | <ul> <li>He has limited cash as most of his<br/>customers pay him digitally. He has<br/>trouble meeting everyday expenses.</li> </ul>                            | <ul> <li>He takes a sachet-sized loan through the<br/>OCEN interface to meet this immediate<br/>expense.</li> </ul>  |
| Name: Mohan<br>AGE: 34<br>Location: Delhi NCR   | Access to lenders             | <ul> <li>He cannot avail a flexible loan for such a<br/>small amount from the bank, so he must<br/>borrow from family or friends.</li> </ul>                     | <ul> <li>His credit strength is good due to a good record<br/>of daily digital financial transactions. So, he can<br/>quickly procure a loan with the OCEN.</li> </ul>                 |
| Profession: Driver who works with online mobility<br>apps (Ola and Uber).<br>Requirement: He needs a loan of ₹1,000 for petrol.                           | Informal lending              | <ul> <li>He does not have the option to get a formal<br/>loan, so he must ensure he is connected with<br/>friends and family for high-interest loans.</li> </ul> | <ul> <li>In addition to his financial data and digital trail,<br/>his Ola and Uber data (reviews, ratings etc.) can<br/>also be shared to determine his creditworthiness.</li> </ul>   |
|   |                               |  | :  |
|   | Reduced financial<br>burden   | <ul> <li>Relies on friends, family or informal<br/>moneylenders to pay her child's school fee.</li> </ul>  | <ul> <li>She applies for a loan through the OCEN (based<br/>on her digital trail and ratings on Swiggy) making<br/>the payment directly to the school.</li> </ul>                      |
| Name: Meera<br>AGE: 26  | Access to low-cost<br>loans   | <ul> <li>The school offers a discount on bulk<br/>payments, however, she can avail it<br/>only by spending a large portion of her<br/>monthly income.</li> </ul> | <ul> <li>She can avail the discount by paying the fee<br/>in bulk through a consumer loan available at<br/>a low-interest rate, without it becoming a<br/>financial burden.</li> </ul> |
| Profession: Food delivery partner working<br>with Swiggy.<br>Requirement: Needs to pay ₹5,000 as her<br>daughter's school fee and has savings of ₹20,000. | Access to additional benefits | <ul> <li>Or, she has to use a large portion of her<br/>savings (25%) to cover this expense.</li> </ul>   | <ul> <li>She can cover this expense with a consumer loan,<br/>without having to dip into her savings.</li> </ul>   |



## **GOVERNANCE AND IMPLEMENTATION**



### The OCEN is built on seven core principles that facilitate credit flow.



While the RBI is responsible for the complete governance of India Stack, two network facilitating organisations – CredAll and Sahamati – have been set to ensure the implementation and adoption of the OCEN and AA Network.

| Layer                                | Network facilitating organisation | Туре                        | Responsibilities   |
|--------------------------------------|-----------------------------------|-----------------------------|--|
| Open Credit<br>Enablement<br>Network |                                   | Non-profit or<br>collective | <ul> <li>Drive the awareness and adoption of the OCEN.</li> <li>Ensure the implementation of the OCEN and give industry participants access to the new protocol.</li> <li>Educate stakeholders, maintain publishing guidelines and principles, connect technology service providers with lenders and LSPs, help LSPs create business cases, and empanel certification agencies.</li> </ul> |
| Account<br>Aggregator                | Sahamati                          | Non-profit or<br>collective | <ul> <li>Support fintechs and entrepreneurs to adopt public APIs and become financial information providers and users.</li> <li>Manage the central registry, provide certifications, and resolve disputes.</li> </ul>  |



### Two reference applications have been designed for the OCEN's pilot, offering small businesses credit solutions based on invoices raised on governmental marketplaces.

• The GeM was launched in 2016 as an end-to-end marketplace for open, efficient and transparent procurement of goods and services by the Central and State Governments. In six years, GeM has registered a total procurement volume of more than ₹2.45 lakh crores, out of which MSME sellers, women sellers and start-ups have collectively contributed about 60%.

### To facilitate credit solutions using purchase order data on the marketplace

### To facilitate credit solutions using invoice discounting

| GeM Sahay  | GST Sahay   |
|--|---|
| <ul> <li>The GeM Sahay acts as an LSP and facilitates credit solutions for small<br/>businesses.</li> </ul>  | <ul> <li>The GST Sahay app was launched as a reference application (such as<br/>BHIM for UPI) to further the use case of the OCEN.</li> </ul>   |
| <ul> <li>It provides access to loans on the basis of invoices or purchase orders.</li> <li>It retrieves relevant data – including transaction data – directly from GeM to paint an accurate picture of the supplier's real time financials.</li> </ul> | <ul> <li>Currently, the invoice-discounting use case, where a merchant can<br/>receive loans against outstanding invoices, is ready for<br/>implementation on the Sahay application.</li> </ul> |
|  |   |



<sup>•</sup> The OCEN's pilot was launched on GeM (Government eMarketplace) portal in May 2021.

# CHALLENGES For the ocen



### Impediments to the successful implementation of the OCEN are borrower debt traps, lack of digitisation of wages for the informal sector, and need for capacity building of LSPs.

| Challenges for the OCEN  |   |   |   |  |  |  |
|--|---|---|---|--|--|--|
| 1<br>Debt trap   | 2 Informal sector paid wages in cash  | 3 Lack of digitisation in small businesses  | 4 Capacity building<br>of LSPs  | 5 Lack of digital footprint<br>at the bottom of the<br>pyramid   |  |  |
| <ul> <li>Currently, indebted<br/>households and<br/>businesses continue<br/>to take loans to repay<br/>their existing debts,<br/>leading to a debt<br/>trap. This can be<br/>attributed to the poor<br/>assessment of their<br/>creditworthiness and<br/>the high penalty fees<br/>associated with loans.</li> <li>Even with the OCEN,<br/>risk assessment of<br/>such borrowers will<br/>be a challenge.</li> </ul> | <ul> <li>The informal sector<br/>is largely paid in<br/>cash. Their utilisation<br/>of bank accounts is<br/>only limited to the<br/>withdrawal of<br/>government<br/>benefits.</li> <li>As such, they do not<br/>have a formal credit<br/>trail, which makes it<br/>challenging for the<br/>OCEN to provide<br/>cash flow-based<br/>loans to these<br/>segments.</li> </ul> | <ul> <li>Lack of use of digital<br/>tools for inventory<br/>management,<br/>savings, financial<br/>planning and others<br/>makes it challenging<br/>for MSMEs to<br/>maintain a consistent<br/>cash flow for loans<br/>through the OCEN.</li> </ul> | <ul> <li>The success of the<br/>OCEN is<br/>contingent on the<br/>integration of e-<br/>commerce<br/>platforms as loan<br/>service providers,<br/>and thus, their<br/>capacity building.</li> </ul> | <ul> <li>Digital financial<br/>inclusion, while having<br/>improved over the<br/>years, is still an area of<br/>concern at the bottom<br/>of the pyramid.</li> </ul> |  |  |

## REFERENCES



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