INTERNAL AUDIT IN INFORMATION TECHNOLOGY ENVIRONMENT

201

10%



Next Gen Internal Audit Survey



High Impact Reporting



Competing priorities are the greatest barrier to internal audit innovation



Next-Generation Internal Audit Enabling Technology maturity levels continue to lag

Use and integration of data and enabling technologies

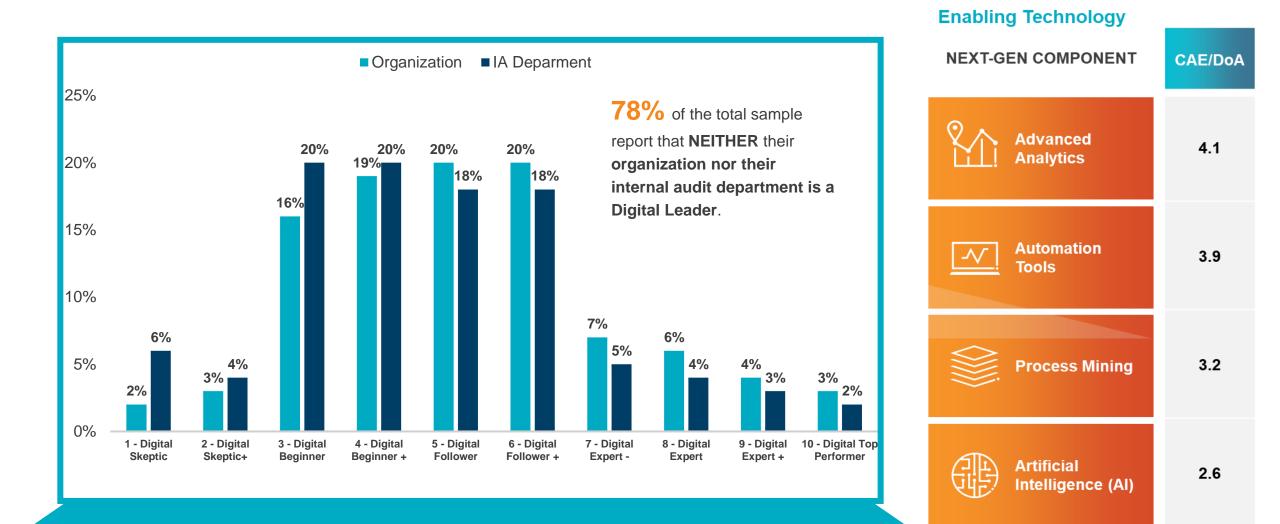


Access to talent, especially technology skills, is a major challenge



The board and C-suite support internal audit's innovation agenda

WHERE ORGANISATIONS RANK ON THE DIGITAL MATURITY SCALE



4

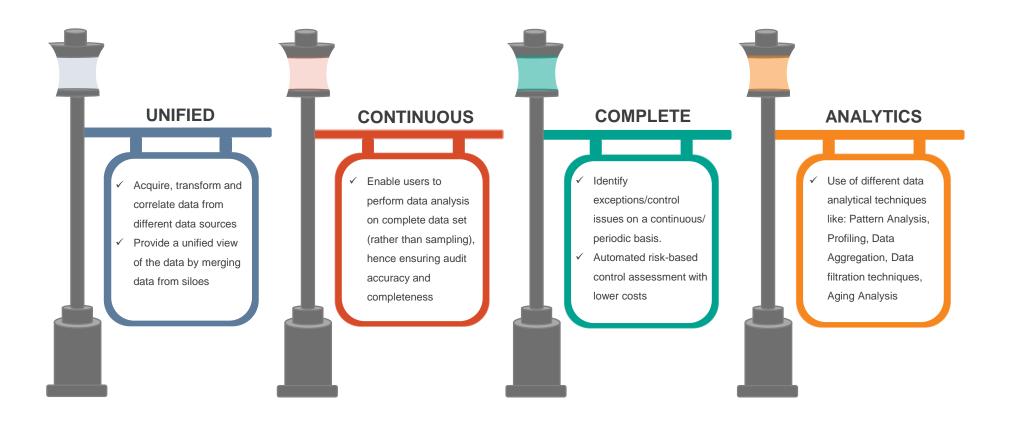
NEXT GENERATION INTERNAL AUDIT – JOURNEY TOWARDS ADVANCED RISK ASSURANCE



Δ 90 80 S 82 Ω 8 C 3 018 F 81 8 68 g H 8 8 С 7 EF Ε 67 4 38 8 5 EF67E 20 DE5 \mathbf{R} **F68** TORING CONTINUO F MON F C 18908 3 F 67E6 D 7 83 6 C C B33 8 56D56D \mathbf{F} 5 3 \mathbf{c} 4B AB23BC 29A 2941 \mathbf{B} **QA** 5DE5 15 TO TO \mathbf{CD} 4BC4B **B**2 AR 33 FOSF Analytics 9 Б **Continuous Monitoring**

CONTINUOUS CONTROL MONITORING OVERVIEW

Continuous Control Monitoring is an automated, ongoing process that enable Internal Audit to collect data from business processes/ transactions and generate various data analytics based on a unified data set to ensure complete and continuous coverage of Internal Audit function.





Procure to Pay Analysis - Payment Analysis Dashboard

| Risk Indicator 1 : Sequence Gap in Payments | Risk Indicator 2 : Payment Stratification - \$'s and Volume | The Payment Analysis Dashboard tries to capture the inefficiencies that exist in the Payment process which can range from weak controls to indication of Fraud or in some | | | |
|---|--|--|---|--|--|
| Risk Indicator 3: Difference between Payment and Invoice $\ref{eq:action}$ | Risk Indicator 4: Payment made in excess of PO value and invoice | cases statistical analysis of data. The objective o an informed decision | f the dashboard is to allow the user to take | | |
| Risk Indicator 5 : Small Dollar Payments | Risk Indicator 6 : Average Days to Pay | Risk Indicator 7 : Holiday Activity | G6 R8 Duplicate Payments The distribution over a period of time helps the encountered recently and on a ongoing basis | | |
| Risk Indicator 8 : Duplicate Payments | Risk Indicator 9 : Multiple Payments – Same Day, Same Vendor | Risk Indicator 10 : Negative value transaction | 2013 | | |
| Risk Indicator 11 : Bank payments to accounts not found in Vendor Master | Risk Indicator 12 : Gap in Sequence of Cheque Number | | 1158- 1,14 108- 1,516 1,200 | | |

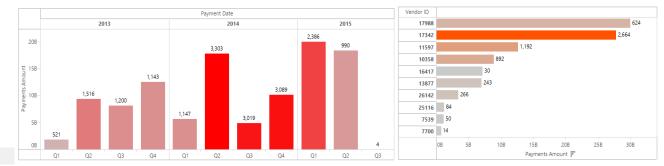
🗄 Group 6 Summary Dashboa... 🗄 Group 6 R1 & R12 🗄 Group 6 R2 🗄 Group 6 R3 & R6 🖶 Group 6 R5 🖶 Group 6 R7 🖽 Group 6 R8 🖶 Group 6 R9 🖽 Group 6 R1

G6 R8 | Duplicate Payments

Multiple payments which are made to the Same Vendor ID against the same Invoice ID is considered as a Duplicate Payment

The distribution over a period of time helps the user in the analysis of the understanding how much exposure the company has The Top N(30) Vendor analysis allows the user to understand who are the major encountered recently and on a ongoing basis

contributors during the time period



| Invoice ID | - Vendor ID | Beneficiary Ban | Beneficiary Name | Payment S | tatus Bank Trans | action Numb | P2P G4 R31 Bank Beneficiaries who are not Suppliers | Payments Amount |
|------------|-------------|-------------------------|--|--------------|------------------|-------------|--|------------------|
| 2191010 | 13877 | البنك السعودي البريطاني | ه هواوي تك انفسمنت العربيه السعوديه المحدوده | ئرک FORMATTE | ED 572728 | | The alithelisation over a period of time helps the sear in the analysis of the understanding | New 39,568,224 A |
| 2191009 | 13877 | البنك السعودي البريطاني | ه هواوى تك انفسمنت العربيه السعوديه المحدوده | درک FORMATTE | D 572728 | | 200 Rynet Dis 200 200 | 39,568,224 |
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| 2190976 | 7772 | البنڭ الاهلي التجاري | الشركه التعاونية لانظمة الاتصنالات | FORMATTE | ED 572515 | | | 1,375,496 |
| 2190967 | 17342 | البنك السعودي البريطاني | فرع شركة اريكسون ايه بي | FORMATTE | D 572726 | | Telecon-New Zouland U.d. Cittaria Your You | 26,311,761 |
| 2190964 | 17342 | البنك السعودي البريطاني | فرع شركة اريكسون ايه بي | FORMATTE | D 572726 | | Matal bight sodp physical bight sodp physical bight sodp physical bight sodp physical bight sodp physical bight sodp Janetas Manapared Celle bigestimal BMC | 26,311,761 |
| 2190961 | 17342 | البنك السعودي البريطاني | فرع شركة اريكسون ايه بي | FORMATTE | D 572726 | | bornesis bornesis | 26,311,761 🗸 |
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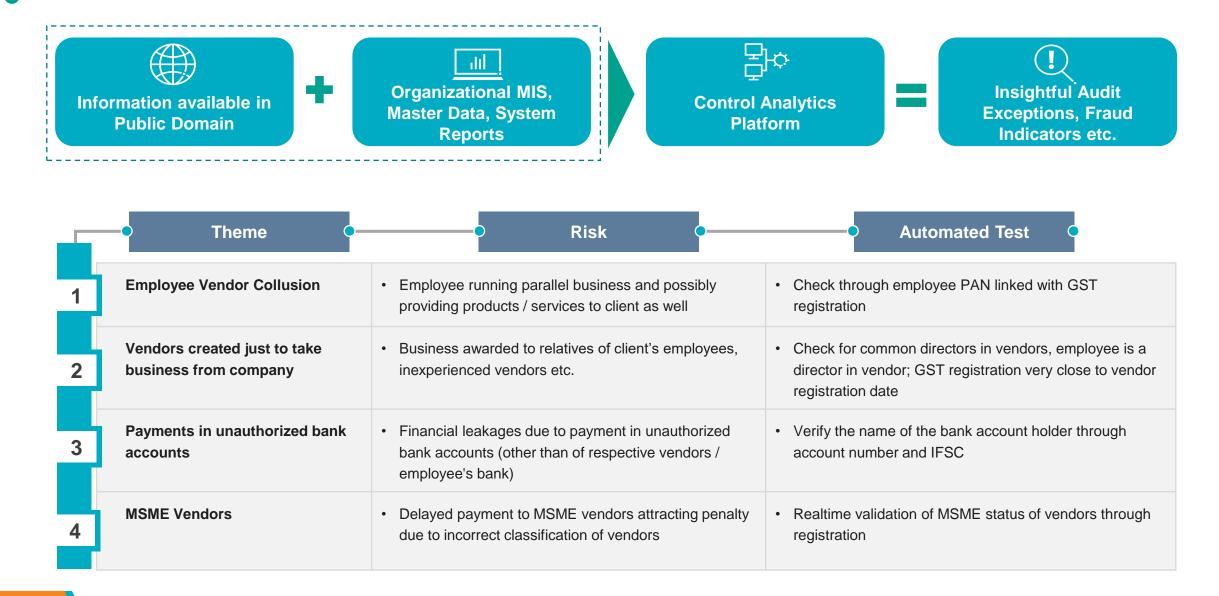
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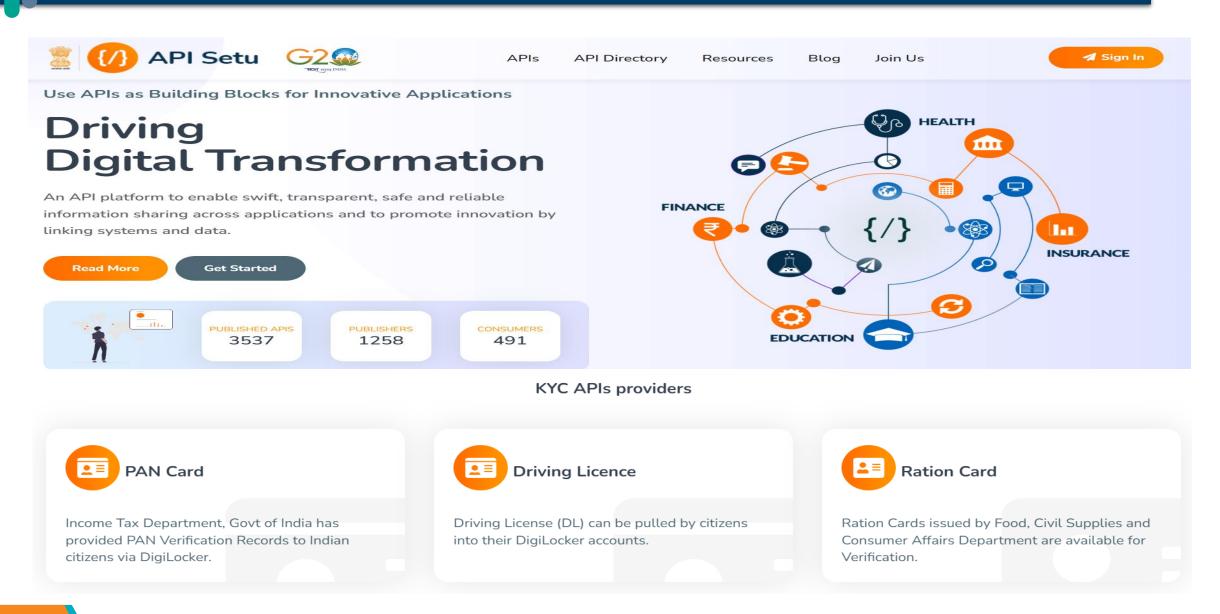
Analytics

Application Programming Interface

LEVERAGING PUBLICLY AVAILABLE INFORMATION AT SCALE AUDIT ANALYTICS

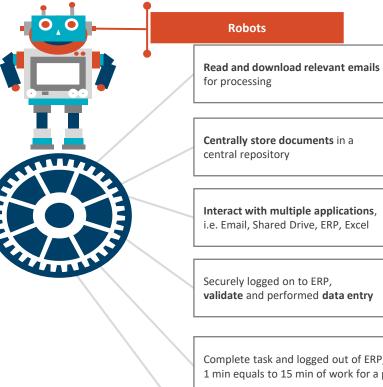


API SETU



Robotics Process Automation

RPA AUTOMATION



Generate task (invoice) summary report and email to process owner



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Complete task and logged out of ERP, 1 min equals to 15 min of work for a person



Assuming 7,000 invoices are to be processed monthly and each invoice requires 15 minutes processing time

1750 HOURS via Manual Processing

116 HOURS via robotic



93% reduction in processing time



saved

Process Mining



COMMON CONCERNS AROUND BUSINESS PROCESSES

I don't understand why my process takes so long; we automated it last year!

Can you help me identify if my on-ground processes are completely aligned with my documented process? How do I find out which part of my invoicing process is currently the most delayed?

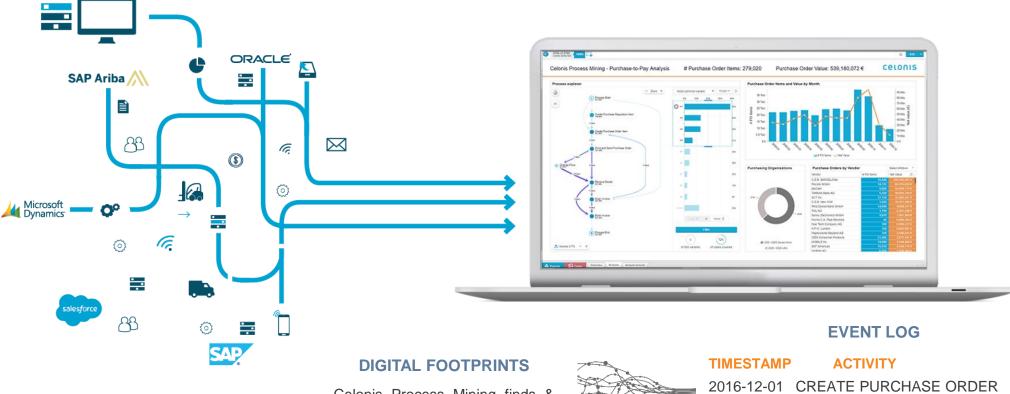


Process Excellence, Department / Heads, Process Owners, Data Analytics teams, Internal Audit, CXO's I want to know if my process is completely standardized or if there are variations..

Are any of my processes non-compliant towards my governance / internal control practices?

WHAT IS PROCESS MINING?

Process Mining is a method to map the flow of various activities in a process end to end by using event logs constructed from digital footprints. These footprints are in the form of timestamps that are generated or recorded in MIS/ERP Systems to indicate occurrence of a certain activity in a Process.

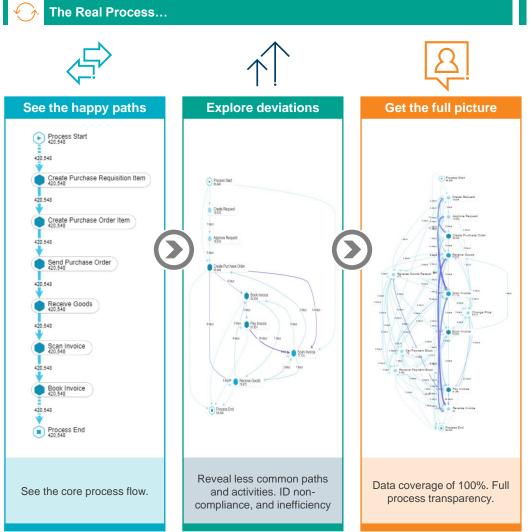


Celonis Process Mining finds & reconstructs digital workflow traces from MIS/ERP Systems



| TIMESTAMP | ACTIVITY | PO NUMBER |
|------------|-----------------------|------------------|
| 2016-12-01 | CREATE PURCHASE ORDER | #1234 |
| 2016-06-23 | START PRODUCTION | #5678 |
| 2016-07-14 | RECEIVE PAYMENT | #1234 |
| 2016-07-14 | SEND EMAIL | #9012 |

PROCESS MINING FOR INTERNAL AUDIT



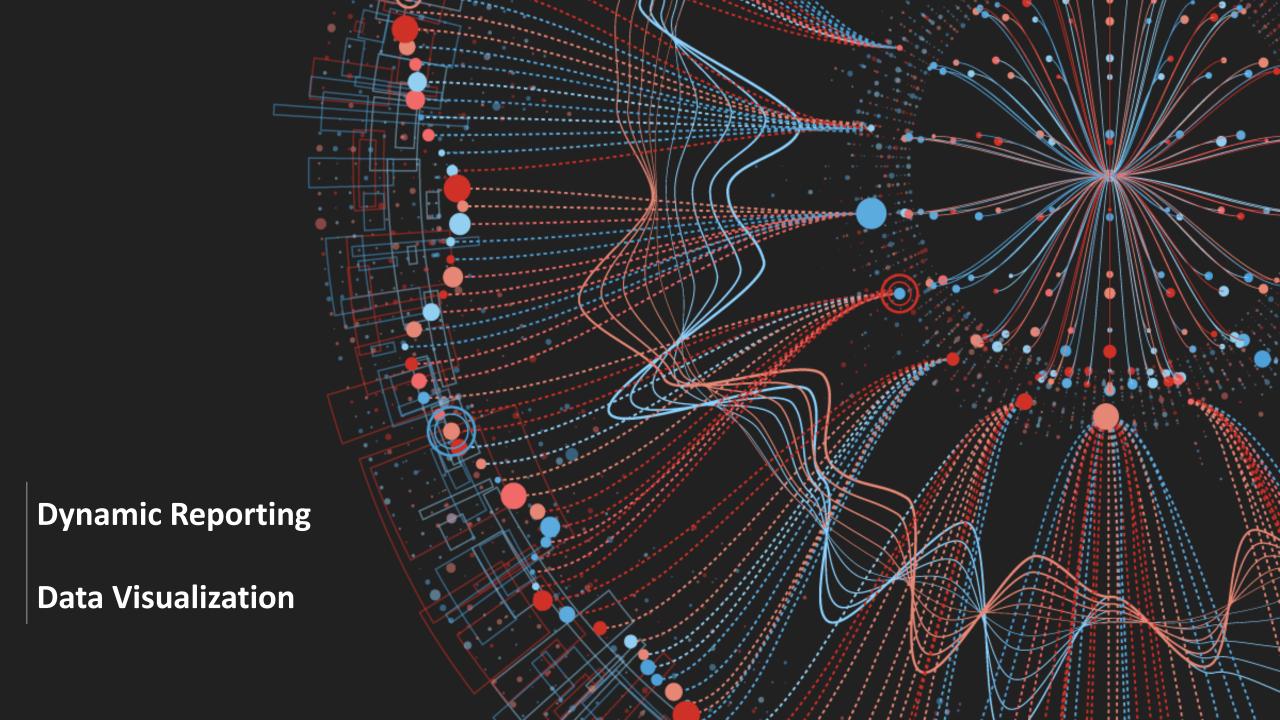
Why Celonis For Internal Audit?

Process mining tools can fundamentally change the way that we analyze processes and perform audits.

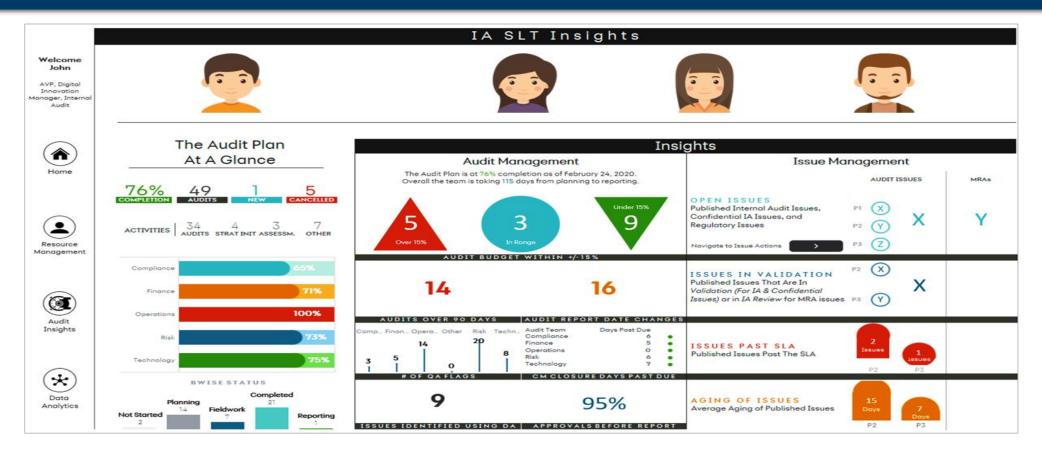


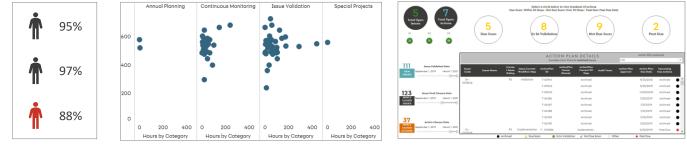
Make findings more impactful by quantifying the impact of non-conformance and benefits of adherence to consistent process.





EXECUTIVE DASHBOARDS





RESOURCE MANAGEMENT

ISSUE MANAGEMENT

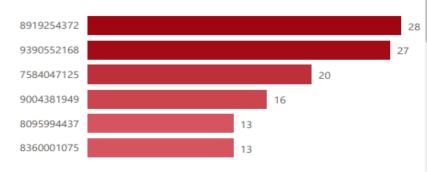
OPERATIONAL DASHBOARDS

| Analysis | 3 - Refund amount transferred |
|----------|-------------------------------|
| to same | customer multiple times |

| Refund Amount | # of Refunds | # of Customers |
|----------------|--------------|----------------|
| ₹ 17,64,532.00 | 248 | 248 |

| Month | Store Name | Payment Mode | Refund Mode | Rider Name | Brand |
|-----------|-----------------|-----------------|-----------------|-------------------|----------------|
| August | Bangalore TR | AmazonPay | AmazonPay | Aditya | Amazing Bake |
| September | Bangalore TR 2 | Cash | Cash | 🗌 akash | Great Pizza |
| October | Banjarahills FC | CRED | | 🗌 amit | Maha Burger |
| November | 🗌 Bapu Nagar | Cred (Razorpay) | Cred (Razorpay) | 🗌 ashra | Mom Bowl |
| December | Basaveshwara | Credit Card | Credit Card | 🗌 devik | Perfect Coffee |

Count of Duplicate refunds per Customer

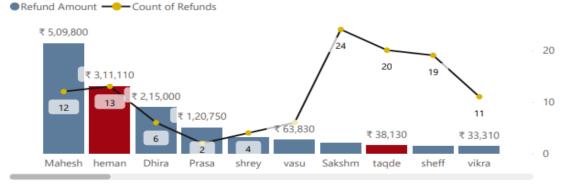


Refund Details

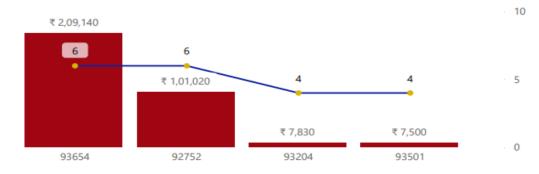
Year
2021
2022

| Mobile Number | Order CRN | Refund Amount | Payment Mode | Refund Mode | Store | Rider | Brand |
|---------------|-----------|---------------|--------------|-------------|----------------|--------|--------------|
| 9390552168 | 82577133 | ₹ 400 | Cash | Cash | BEML FC | sheff | Maha Burger |
| 8360001075 | 83512894 | ₹ 500 | Credit Card | Cash | BEML FC | mahes | Sweeth Tooth |
| 7760016217 | 85669386 | ₹ 500 | paytm | paytm | Bavdhan RK | priya | Maha Burger |
| 9390552168 | 79153130 | ₹ 500 | AmazonPay | AmazonPay | BEML FC | Sakshm | Maha Burger |
| 9421319264 | 85732409 | ₹ 500 | gpay | gpay | Bangalore TR 2 | shais | Wraps |
| 9390552168 | 83045770 | ₹ 500 | Cash | Cash | BEML FC | sheff | Maha Burger |
| 7838690366 | 80190283 | ₹ 500 | Simpl | Simpl | BEML EC | tande | Maha Burger |
| Total | | ₹ 17,64,532 | | | | | |

Rider wise Refund Amount and Count



Refunds generated to Employees

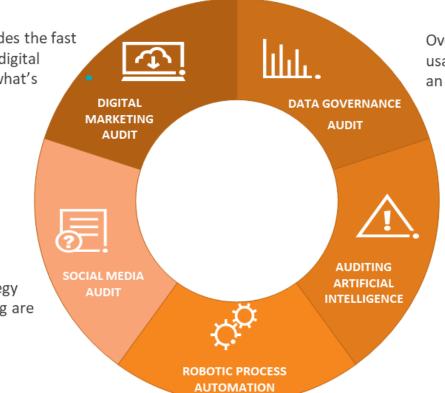


Refund Amount ——— Count of Refunds



Auditing Emerging Technologies

AUDITING EMERGING TECHNOLOGIES



Audit Areas of Focus

A digital marketing audit provides the fast track to understand how your digital investments are working and what's needed to accelerate ROI

How prepared are organizations in ensuring that their social data strategy and the investments they are making are meeting their revenue, customer connect, security and regulatory requirements?

> Robotic process automation is an emerging form of business process automation technology based on the notion of software robots or artificial intelligence worker.

Overall management of the availability, usability, integrity and security of data used in an enterprise

As AI systems evolve, it is conceivable that—at some point—they could provide autonomous knowledge. However, algorithms designed to achieve optimal efficiencies could inadvertently result in negative or unforeseen consequence

THANK YOU