De-clogging Process Highway

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Abstract
Our organization processes loan applications and disburses loans to the customers. Our constant endeavor is to process the file in the least turnaround time. The ability to decide on case faster depends highly on the preceding processes of checking of files for completeness, data entry into the core system, analysis of bank statements, computation of eligibility and getting internal or external verification done. The project is aimed at improving the turnaround time for pre-approval processing of files. A benchmarking study was carried with the process of traffic management where similar problems exist by visiting the Gemba. We observed various measures taken to control traffic at peak hours like use of (1) Freeway / Ring roads: In most cities ring road is constructed to allow for traffic which bypasses congested areas. We implemented a centralized CPA (Credit processing agent) shop for mandatory data entry. This enabled us to balance different volumes at our 40 odd branches. (2) Junction Control: In some cities we identified areas where roads were unidirectional during certain times of the day and would go in the opposite direction at other times based of traffic. In our organization context we initiated training programs to improve the competency of branch teams to handle multiple process/ products. (3) Making information available: Congestion information helps in diverting vehicular movement on alternate routes. In our company, specific information / status pertaining to each file was not available on a real time basis. This information was stored manually and would take a lot of time and effort to collate. Reports were formed which collate information and case specific requirements are shared with all the stakeholders proactively. To ensure that this effort is sustained we formed a Credit Operations Team with a defined organization structure. PDCA (Plan Do Check Act) approach was followed in executing the project; pilot studies were conducted at Mumbai to check effectiveness of the model, post validation the changes were replicated across branches. The project has resulted in 17% improvement in cases meeting turnaround time for processing along with 33% improvement in productivity as compared to the last Financial Year.

Keywords
Centralized Common Processing Unit, Underwriting Process, Benchmarking, Productivity, CPA (Credit Processing Agent)

1. Introduction and Background of the Problem
The main objective of our organization is to process the loan applications and disburse loans to customers. To this effect the core processes are Underwriting Process which starts when the loan proposal is received at our office and ends with loan decision and Disbursement Process which starts with receipt of loan agreement & supporting documents and ends with disbursement of loans to customer.

These processes can further be divided in three types of activities, first being processing of files comprising of checking of files for completeness, data entry into the core system, analysis of bank statements, computation of eligibility and getting internal or external verification done. Second being decision making on the case based on the updated information, verification reports and discussions with the customers. Third being disbursement of loans for the approved cases post receipt of loan agreement and required documents.

The first part of the process involves conducting the activities as per the Standard Operating Procedures (SOP) by the Credit Processing Agents (CPA) and the second part of the process, highly dependent on the first part involves decision making by the underwriter/s in line with the product & policy guidelines. So to deliver decision faster to the customer, direct sourcing agent and dealers of the vehicles / equipment it is essential to complete the first part of the activities faster. The third part of process though highly dependent on customer, as the disbursement of loan is required on the vehicle/ machinery / property being ready for delivery / handover, once the process is initiated by the customer the process for loan disbursement has to happen fast.
Voice of Customer: Higher Turn Around Time (TAT) for decision (Approval / Rejection) have been highlighted as area of improvement by the External (Customer / DSA), along with the same internal customer (Sales) have highlighted Lack of ownership, Non STP(Straight Through Path) Process as an area of improvement. Hence, we decided to take up a project to streamline the processing of files primarily for the first and the third part of the process i.e. processing of files and disbursement of loans.

1.1. Potential Impact

The project is aimed at improving the performance of the key process of the organization. There is high amount of buy in the senior management team including the CEO and Business Heads & Risk Head. Positive response has been received towards the projects from the regional and zonal leaders at the locations outside Head Offices where the actual processing of files is happening. The project is aimed at bringing in efficiency for >95% of the files processed and >70% of the employees (sales & credit teams) will be involved / impacted by the project.

2. Problem Identification

With the intent to observe the functioning of the process at the branch the project team including the project leader first hit the Gemba “the real place”, observed the functioning of the branch and interacted with the process participants. The process participants (Credit manager and CPA), suppliers (Sales) and the customer (Operations) team members from the Mumbai branch were involved in conducting the initial study and their inputs were taken into consideration throughout the project. The following were observed at the Gemba:

- Increased flow of files on month-end i.e. 40% of login
- Some of the activities are mandatorily completed for all files logged in and rest of the activities may or may not happen depending on the case details
- There are 3-4 independent teams taking care of different products i.e. vehicles, ML, SME etc (Ref Figure 1)
- In each of the teams the process is further divided into 3-4 sub processes i.e. login team, eligibility calculation, banking and disbursement team (Ref Figure 1)
- Team members are dedicated to handle some part of the process (Ref Figure 1)
- Load balancing issues when some teams are loaded while others are free
- There is lack of monitoring of the activities on the floor, organization structure of the teams are not clearly defined
- CPA were reporting to the credit managers whose core competency is underwriting of files and have minimum exposure to the shop floor management
- Credit Managers are not available at the branch to monitor the activities as they have to meet customers before underwriting the case
- Activities carried out during the process were not listed and there was no method for gauging ability of CPAs s in completing each of the activities.

| Factors                          | Vehicle loans (VL) | Mortgages Loans (ML) | SME Loans (SME) | Construction Equipments Loan (CE) |
|----------------------------------|--------------------|----------------------|-----------------|----------------------------------|
| Time taken to get the loan sanction | Critical Improvement | Secondary Improvement | Secondary Improvement | Critical Improvement |
| Time taken to get the loan disbursed | Secondary Improvement | Critical Improvement | Secondary Improvement | Critical Improvement |

Critical : Where Reliance score is a) lower than the competitors and other activities performed internally
Secondary : Better than 1/3 competitors, better than few of activities performed internally

Figure 1. Strategic Priority of Factors in CSAT Survey
Figure 2. Organization structure CPA team at locations

Figure 3. TAT - Login to Ready for Underwriting in 24 HRS
| Sr. No. | Name of CPA | Region | Location | Core Product | Core Activity | DOJ | Count of staff got control over the activity | % of staff knows the activity |
|---------|-------------|--------|----------|--------------|---------------|-----|---------------------------------------------|-----------------------------|
| 1       | Ravindra Shivaji Bandarkar | West Mumbai | ML CAM Team | 23/09/13 | 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 85 |
| 2       | Mayur Ramchandra Avhad | West Mumbai | ML Team Leader | 05/03/12 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 100 |
| 3       | Ajay Dixit | West Mumbai | ML Disb Team | 02/07/13 | 1 1 1 1 1 3 3 3 1 1 1 1 1 1 1 1 3 3 3 3 3 3 67 |
| 4       | Siddharth Subhash Kamath | West Mumbai | ML Login Team | 21/04/13 | 3 3 3 3 3 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 21 |
| 5       | Prachi Sitaram Sawant | West Mumbai | SME CAM Team | 01/08/07 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 100 |
| 6       | Mitesh Vijay Rajda | West Mumbai | SME CAM Team | 29/10/07 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 95 |
| 7       | Dayanand Parab | West Mumbai | AL Login Team | 08/05/07 | 3 3 3 3 3 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 0 3 1 1 85 |
| 8       | Nilesh Krishna Bane | West Mumbai | VL CAM Team | 21/11/07 | 1 1 3 3 3 3 3 3 3 3 3 1 1 3 3 3 3 3 3 3 0 3 1 1 82 |
| 9       | Ajit Kambale | West Mumbai | AL CAM Team | 07/01/08 | 1 1 3 3 3 3 3 3 3 3 3 1 1 3 3 3 3 3 3 3 0 3 1 1 82 |
| 10      | Ganesh Patil | West Mumbai | VL Login Team | 30/12/09 | 1 1 3 3 3 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 0 0 3 3 70 |
| 11      | Dinesh Merchande | West Mumbai | AL Control Team | 08/03/10 | 3 3 1 1 1 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0 0 0 1 1 56 |
| 12      | Ajay Zepale | West Mumbai | HL CAM Team | 24/12/13 | 0 0 0 0 0 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 14 |
| 13      | Abhijeet Mishra | West Mumbai | HL Login Team | 13/01/14 | 0 0 0 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 |
| 14      | Rajshree Chauhan | West Mumbai | HL Login Team | 12/02/14 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 15      | Shweta Shinde | West Mumbai | HL Login Team | 15/01/14 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 16      | Samir Desai | West Mumbai | HL Control Team | 20/04/07 | 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 29 |
| 17      | Milind Wadkar | West Mumbai | CV Disb Team | 23/08/07 | 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1 3 3 3 3 3 1 1 87 |
| 18      | Vyankatesh Lad | West Mumbai | HL Disb Team | 18/01/14 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 4 |
| 19      | Tausif Shaikh | West Mumbai | HL Disb Team | 10/02/14 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 4 |
| 20      | Kiran Manjarekar | West Mumbai | HL Disb Team | 16/01/14 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 4 |

Figure 4. Sample Competency Sheet
Figure 5. Competency Improvement

Figure 6. CPA Productivity (Files processed per CPA at branches).
3. The Approach

The processing of files has different volumes in different parts of the month, is akin to the traffic on the road network in any of metros, where there is huge traffic at peak hours and low traffic during other parts of the day. We started observing the various measures taken to control traffic at peak hours and started analyzing the possibility of using those solutions in streamlining the process. While observing the traffic management in the metros the following were observed.

- Use of freeway / ring road for traffic moving from one part of city to other part of city without any requirement of getting into the city
- Use of some lanes in one directions for other direction i.e. use of 4 lanes in place of 3 lanes for one direction traffic at peak hours for a 6 lane road
- Use of roundabout / bridges in place of crisscrossing junctions with signals
- Using roads for one way traffic in place of both side movement in small streets
- Traffic control rooms similar to airports and railways
- Use of outsourced resources to handle traffic at peak time

4. The Solution

The following solutions were arrived at post analysis of
4.1. Setting up of Centralized CPA Shop

The use of freeway / ring roads has been successful in freeing up the traffic in central roads of the city. In business parlance we created a central team to manage a part of the process which includes mandatory activities post receipt of the files at our end. By having a central team catering to all locations we are able to concentrate our resources at one place and complete the STP process at one go. As these activities does not require information other than what is available in the loan files the activity could be centralized. The central team works in two shifts which is not feasible in the branches which operate only during business hours, thus improving service levels & efficiency by using the same infrastructure thereby reducing costs. Moreover the login of files at branch happens mostly towards the end of day. Files were actually processed during the next working day. The central CPA team is able to make files ready for credit manager by working in shifts the next day. With the setting of centralized CPA shop the files being ready for underwriting in one day have moved from sixties to eighties.

4.2. Improving Competency of the Team

The second feature on the Mumbai highways is of switching lanes from 3+3 to 4+2 lanes, typically in a 6 lane highway 3 lanes are for ongoing vehicular movement and vice-versa. During morning hours, the ongoing traffic is crowded on one side, whereas the other 3 lanes are less crowded and in the evening the reverse is true. The Mumbai traffic police follow an interesting mechanism, during morning hours in some pockets which are prone to congestion; they ensure one additional lane is also available for ongoing traffic. This ensures smoothening of traffic in congested areas. When we look at our business we see that the initial days of the month are for logging in fresh cases. The employees who are aligned to the eligibility calculation part of the process (CAM team) are busy during the initial days of the month. The disbursal team on the other hand is relatively free. During the month end it’s the turn of the disbursal team to be neck deep in work whereas the CAM team is relatively free. The solution, obviously a simple one, is to mobilize people from one team to other team depending on the volumes.

But the processing teams were aligned along products, this compounded the problem. Getting the entire team under one umbrella and multi-skilling then was imperative to load balancing. Activities carried out during the process were not listed and there was no method for gauging competency of the CPAs in completing each of the activities. The project team developed the Competency Sheet comprising of all the activities of the process and all the team members were asked to fill the competency sheet for self with the supervisor on Scale of 1, 2 & 3. Where 1 is ability of complete activity only for one product, 2 is ability to complete activity for >1 product and 3 is ability to complete for all products. Sum total of all activity rating resulted in competency score of the CPA.

With setting of Common CPA and creating the capability for doing cross product cross activities the competency scores of the team have moved from the range 20-40 to 70-90 across the major locations.

4.3. Using Roads for One Way Traffic in Place of Both Side Movement in Small Streets

The third toll used for traffic management is the concept of one ways. In our business we divided the processing team into three processes. The first process concentrated on the new cases. It focused on login and eligibility calculation. The second process focused on disbursal of sanctioned cases. The third process focused on file control and vendor management. For multi skilling we devised a two phased approach. The first phase concentrated on intra process multi skilling on different products and second phase on inter process multi skilling.

4.4. Clubbing of Activities and Making Small Task Forces

Uses of roundabout / fly-over in place of crisscrossing junctions keep the momentum of the vehicles at the junction rather than stop and go scenarios. In the business scenario we have clubbed the similar activities from different part of process and made small task forces in the teams who are doing the activities faster.

4.5. Making Information Available

In advanced countries information is a major weapon to manage traffic. Congestion information is relayed through networks along major roads. Vehicular movement is diverted on alternate routes thereby controlling traffic. In our business process, there are various stake holders. The Sales team, credit team, various supervisory staff and senior management require information. The information requirement ranges from case specific details to aggregate level information. Ideally all such information should be automatically captured on a real time basis. It should be available on a click of a button. Though we have a LOS (Loan origination system) which gives us case specific information, however specific information such as legal and technical valuation status of each case is not available on a real time basis. This information is stored manually and takes a lot of time and effort to collate. We have one-key reports which collate information and present it in dashboards apart from that the case specific requirements are shared with the sales team proactively. MIS and dashboards are available for the CPA managers to ascertain the level of activity pending.

4.6. Setting up Common CPA & Appointment of CPA Managers

This is similar to managing traffic in one part of the city.
and not considering the load in the other parts in major cities
the same is managed by synergy of all related traffic force. In
the business case we have product level CPA teams into one
team which is able to manage all the products seamlessly as
compared to working in silos.

The existing organization was akin to a system where the
normal police forces responsible for maintaining law &
order situation is also taking care of traffic management as
an additional responsibility rather than having dedicated
traffic police force responsible for managing traffic. In the
business scenario we had credit managers supervising the
CPA shop along with the core responsibility of underwriting
of cases, we have set up Credit Operations Team and CPA
Managers are appointed at the major locations responsible
for managing the process and making the files ready for
underwriting sooner. This has resulted in bringing focus into
the processing of the files as this team is solely responsible
for smooth flow of files.

4.7. Bringing in Location Level Synergies

In places like Mumbai where during peak hours / festivals /
public gathering for rallies the available traffic police force
is not adequate to handle, personnel from other locations are
called in to manage the situation. In the process what we
have done is that in case of high flow of files at one location
we are able to pass on load to the teams sitting at smaller
locations with low volumes.

5. Implementation of the Project

The project the Central CPA (CCPA) was set up in
Mumbai. Prior to implementation of the same an application
was developed and rolled out with a workflow enabling the
branches to send scanned images to the CCPA team and also
received back the processed applications.

During the project pilot CCPA team was setup with the
CPAs from Mumbai branch and then new team members
were included in the team, credit managers from Delhi,
Kolkata & Mumbai gave on the job training to the CCPA for
a week, from there the team took it forward.

Setting up the common CPA at location was a huge
Change Management Activity as the CPAs were historically
reporting into the credit managers and were concerned with
the product they were handling. In the revised structure they
are detached from their supervisors and required to perform
the tasks independently. Each location threw a different
challenge due to the local dynamics of the sales & credit
team. Like any change management activity there was huge
resistance to the initiative in beginning. With the
involvement of all stakeholders in the transition process and
support from the senior management team we have setup
Common CPA at 17 major locations. The remaining small
location / single product locations are to be covered by the
end of FY 15.

6. Sustainability of Project

The project has resulted in setting up of an independent
Credit Processing Team; the team structure is in place with
clearly defined roles and responsibilities. The National CPA
Manager is reporting into Credit and Risk Head. Key
deliverables of the team are included in the CEO’s monthly
Quality Dashboard Reviews. Over 95% of the files are being
processed at the central team for STP since May’14 and
Common CPA Shops are set up at 17 branches, all branches
with multiple products are to be covered by the end of
financial year 15.

With the current project resulting in significant benefits to
the organization the Common CPA team’s scope is being
extended to include sales back-office. Initial study for the
same has been initiated in Mumbai.

7. Impact of the Project

The project has resulted in significant improvement in the
processing of the files and 75% of the files are being
processed at 17 Locations where Common CPA team is in
place. The Productivity of the CPA at 17 Locations have
moved up by 33% during Apr’14 to Nov’14 as compared to
corresponding period in last FY.

8. Conclusions

Adaptation of traffic management tools in the loan
processing function have significantly improved the process.
The project findings have been institutionalized in form of
standard work procedures so as to continue reaping the
benefits of the project in long run.

9. Limitations

The analogy of related problems in unrelated systems can
be used where the problem facing the systems are in similar
in nature, the case study may not be useful where the
problems faced by the system not overlapping in nature, we
may be required to look at diversified sources to find the
solutions.

10. Scope for Future Work

The next logical step in this works in to look at the
probability of using the project findings in the other process
i.e. Post disbursement process and loan servicing. It would
be equivalent to synchronizing the road traffic with non-road
means of the commute i.e. Metro trains, Trams monorails
etc.
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