

Digi Pass

Hassle free... Paperless... fully Digital **Transit Pass**

EMM11

FORM C

ISTP



Digi-Transit Pass [MinePass/DigiPass]

Introduction

The Department of Geology and Mining presently manages the collection of royalties from 300 mines, 200 stockists, and minerals arriving from neighboring states. Within this operational framework, the Department of Geology and Mining has implemented a system to oversee the sale and procurement of minerals. This system involves the issuance of specific transit passes :



EMM-11

भारत सरकार, उत्तर प्रदेश सरकार
Directorate of Geology & Mining,
Government of Uttar Pradesh

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Directorate Of Geology & Mining Uttar Pradesh
Mineral Transit Pass (Form EMM-11) - Transit Pass For Transportation & Mineral Transit (See Rule 76(1))

Form EMM-11

TRANSPORTER DETAILS & MINERAL QTY TO BE TRANSPORTED	
1. License No.	3120000000000000
2. Name of Licensee	RAJESH KUMAR SHARMA
3. Mobile Number (if any)	9876543210
4. The Number	1234567890
5. License No.	3120000000000000
6. License Details (Name, Address, Pin Code, etc.)	RAJESH KUMAR SHARMA, 1234567890, 201001, 201001, 201001
7. Validity of License	31/03/2021
8. QTY Transported in (Meters)	30 m
9. Loading Point	MAHARAJA
10. Destination (Delivery Address)	MAHARAJA
11. Loading Point	MAHARAJA
12. Destination (Delivery Address)	MAHARAJA
13. Loading Point	MAHARAJA
14. Destination (Delivery Address)	MAHARAJA
15. Loading Point	MAHARAJA
16. Destination (Delivery Address)	MAHARAJA
17. Loading Point	MAHARAJA
18. Destination (Delivery Address)	MAHARAJA

1. Registration Number: EMM-11/2021
2. Type of Vehicle: TRACTOR-DRIVEN
3. Name of Driver: RAJESH KUMAR SHARMA
4. Mobile Number of Driver: 9876543210

This EMM-11 is valid up to 31/03/2021 10:47:21 PM.

(issued by lessees)

eForm-C

भारत सरकार, उत्तर प्रदेश सरकार
Directorate of Geology & Mining,
Government of Uttar Pradesh

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Directorate Of Geology & Mining Uttar Pradesh
Mineral Transit Pass (Form eForm-C) - Transit Pass For Transportation & Mineral Transit (See Rule 76(1))

Form eForm-C

TRANSPORTER DETAILS & MINERAL QTY TO BE TRANSPORTED	
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1. Registration Number: EMM-11/2021
2. Type of Vehicle: TRACTOR-DRIVEN
3. Name of Driver: RAJESH KUMAR SHARMA
4. Mobile Number of Driver: 9876543210

This eForm-C is valid up to 31/03/2021 12:05:01 AM.

(issued by stockists)

ISTP

भारत सरकार, उत्तर प्रदेश सरकार
Directorate of Geology & Mining,
Government of Uttar Pradesh

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Directorate Of Geology & Mining Uttar Pradesh
Mineral Transit Pass (Form ISTP) - Transit Pass For Transportation & Mineral Transit (See Rule 76(1))

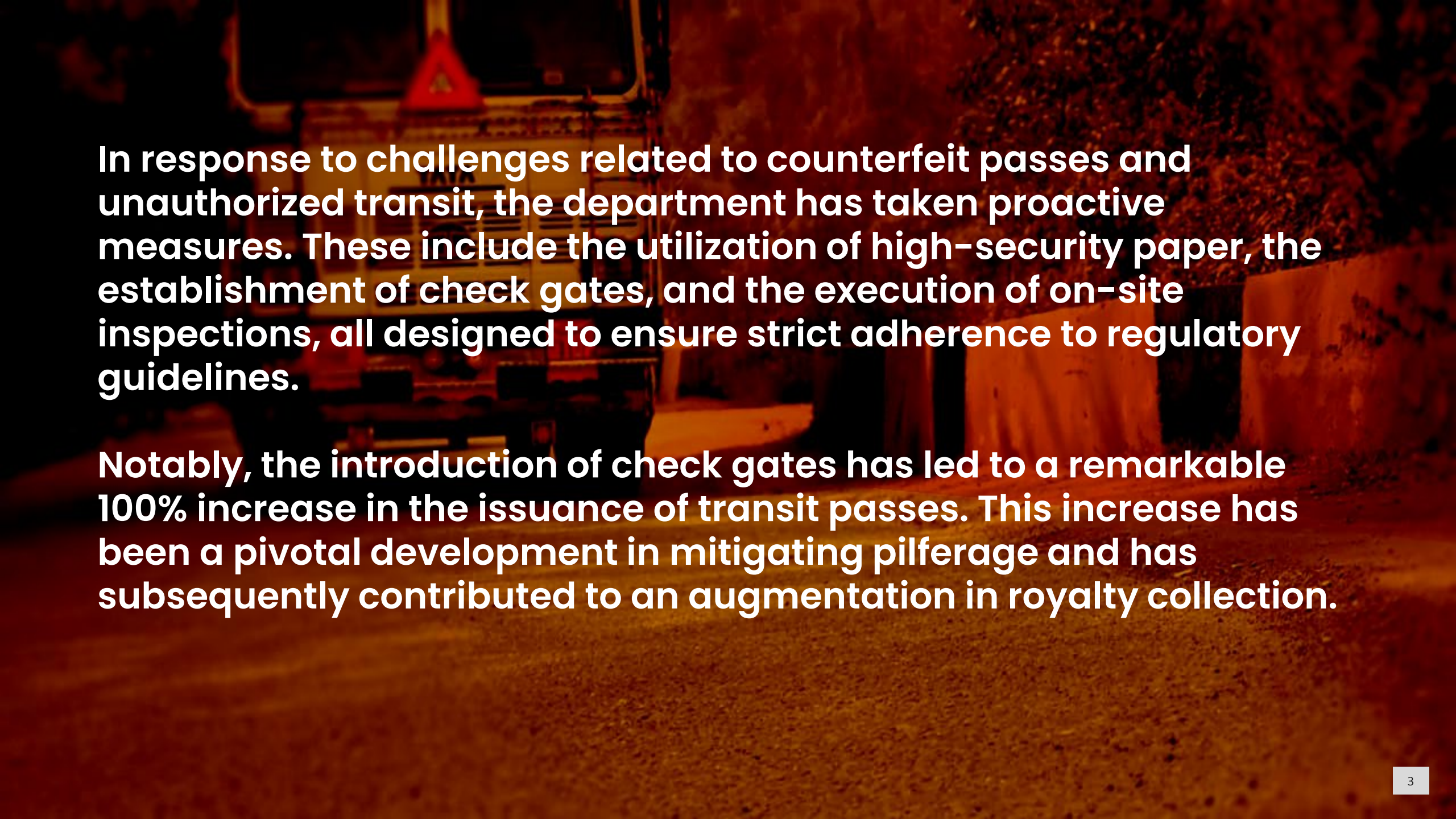
Form ISTP

TRANSPORTER DETAILS & MINERAL QTY TO BE TRANSPORTED	
1. License No.	3120000000000000
2. Name of Licensee	RAJESH KUMAR SHARMA
3. Mobile Number (if any)	9876543210
4. The Number	1234567890
5. License No.	3120000000000000
6. License Details (Name, Address, Pin Code, etc.)	RAJESH KUMAR SHARMA, 1234567890, 201001, 201001, 201001
7. Validity of License	31/03/2021
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1. Registration Number: EMM-11/2021
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4. Mobile Number of Driver: 9876543210

This ISTP is valid up to 31/03/2021 12:05:01 AM.

(issued at border checkpoints for vehicles arriving from neighboring states)



In response to challenges related to counterfeit passes and unauthorized transit, the department has taken proactive measures. These include the utilization of high-security paper, the establishment of check gates, and the execution of on-site inspections, all designed to ensure strict adherence to regulatory guidelines.

Notably, the introduction of check gates has led to a remarkable 100% increase in the issuance of transit passes. This increase has been a pivotal development in mitigating pilferage and has subsequently contributed to an augmentation in royalty collection.

Problem Statement



The Department of Geology and Mining has been embracing modern technologies to combat counterfeiting, theft, and various illicit activities, all aimed at ensuring the integrity of royalty collections. However, as time has progressed, those engaged in pilfering have continually upgraded their methods, effectively countering the implemented technology.

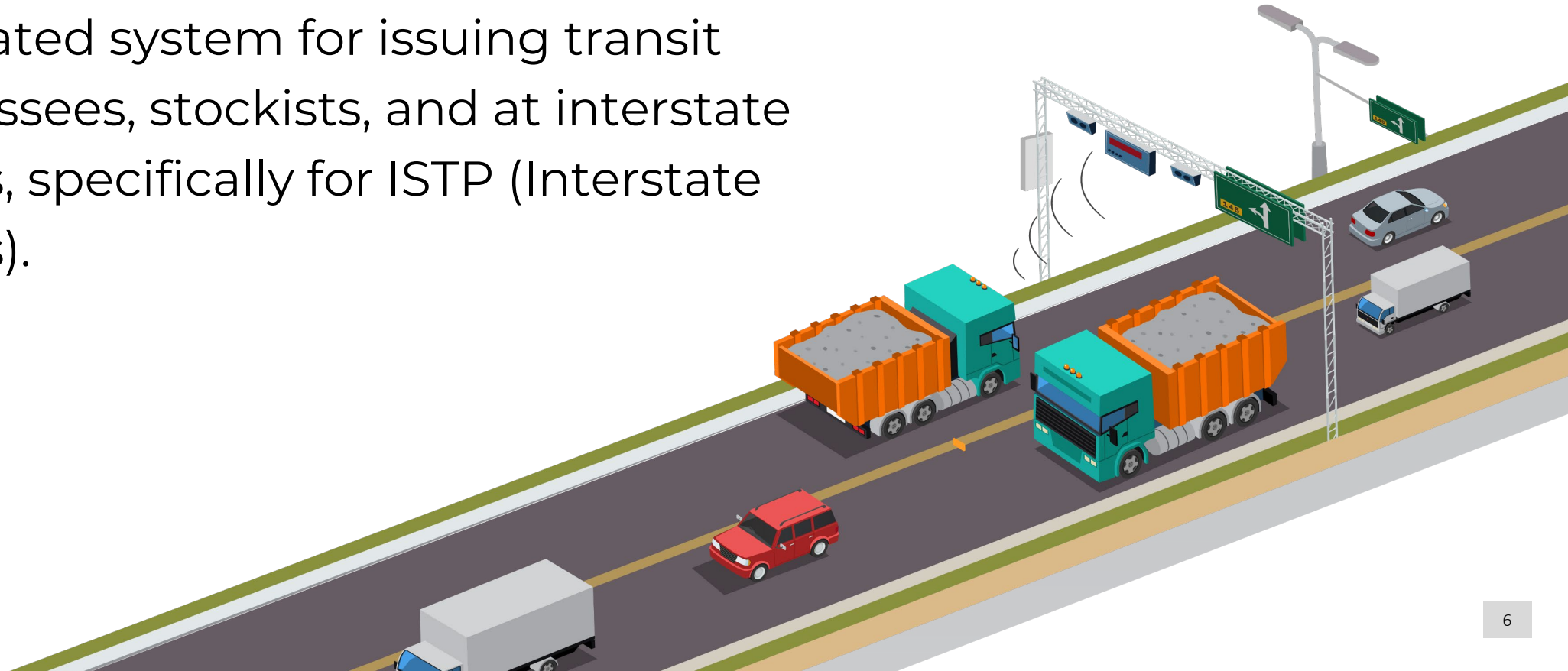
As a response to this ongoing challenge, the department must continuously enhance and introduce advanced technologies in various aspects of its operations to maintain a competitive edge over those attempting to circumvent the system.

The department is particularly focused on closely monitoring the activities of lessees and stockists to ensure 100% compliance with the transit pass issuance process. It's important to note that this process is currently conducted manually, which, unfortunately, provides an opportunity for pilferers to exploit certain vulnerabilities.



Proposed Solution –

The Department of Geology and Mining is poised to introduce 'DigiPass/Digi Transit Pass/MinePass,' a comprehensive, paperless, and automated system for issuing transit passes to lessees, stockists, and at interstate check posts, specifically for ISTP (Interstate Transit Pass).



Key Features

DigiPass/Digi Transit Pass/MinePass

01

A 'DigiPass' (RFID Tag) affixed to the truck's windshield will be a mandatory prerequisite for generating the transit pass.

02

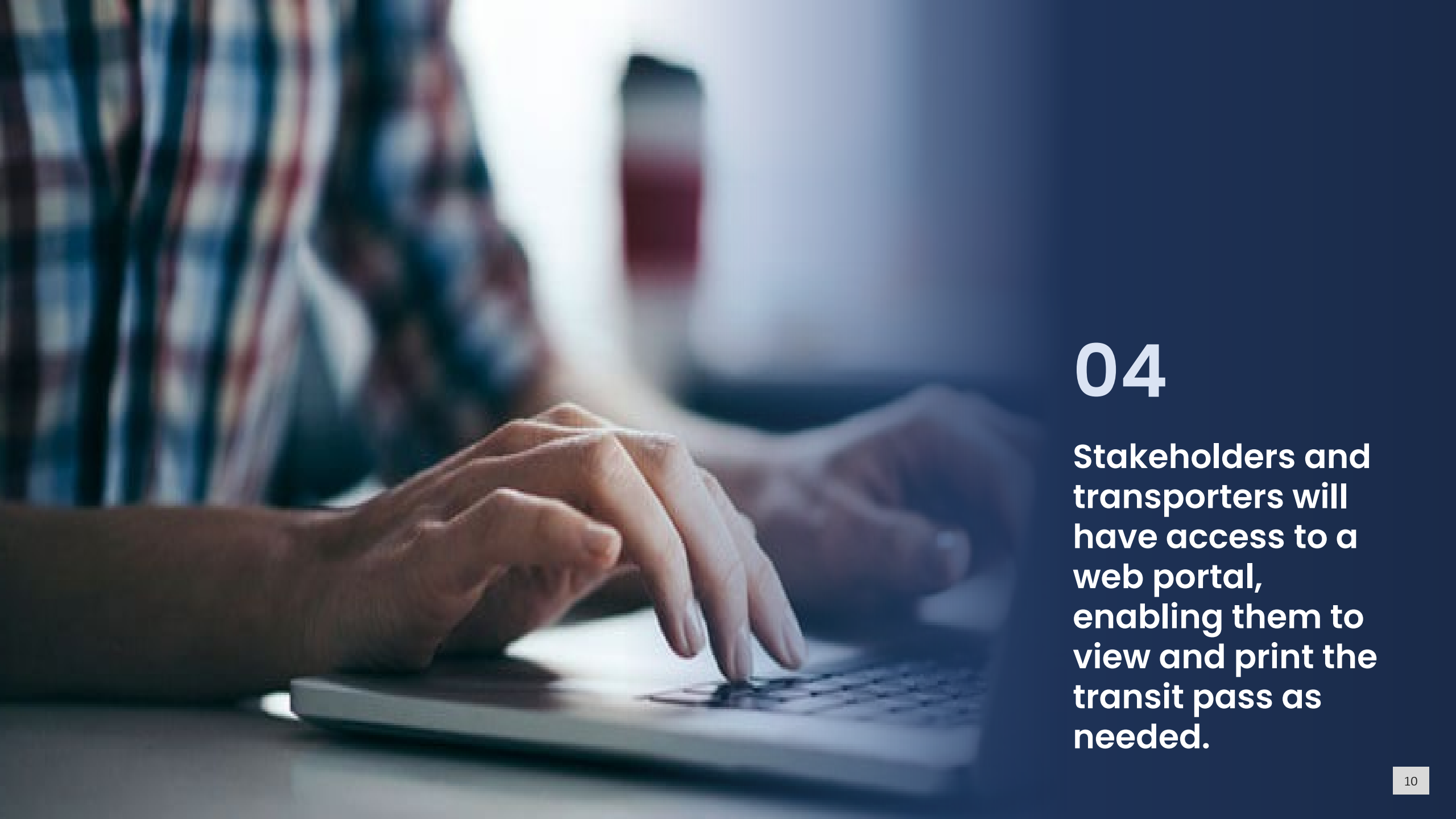
Once generated, the transit pass will be automatically linked to the DigiPass, ensuring a untampered vehicle data.



03

Transporters will receive an SMS containing the Transit Pass's unique ID for their reference.





04

Stakeholders and transporters will have access to a web portal, enabling them to view and print the transit pass as needed.

05

An enforcement team can easily verify the validity and details of the transit pass by scanning the DigiPass using a handheld RFID Reader.



06

Transit pass verification can also be carried out offline through SMS, particularly in areas with limited network connectivity.



This advanced system is designed to streamline the process of issuing transit passes, enhance transparency, and improve overall efficiency in the management of mineral transportation.



DigiPass Features

Department will issue 2 type of Plastic Card having QR Code and departmental branding to the following stakeholders by district Mining Officers –



1. Transporters/ Vehicle Driver

2. Lessee/ Licensee

(All using **MineMitra** Mobile App)



FOR VEHICLE DRIVER

- View latest Transit Pass (TP) issued on vehicle.
- View all TP issued on particular vehicle.
- View vehicle wise notices and make payment.
- Report breakdown in less entry.
- Easy way to report trip closer. (New Feature)
- Contactless Transfer of Digital Transit Pass to construction agency's contractor while selling the mineral



FOR TRANSPORTER

- Get informed of their all vehicle's TP details for easy monitoring.
- View their all vehicle's notices and make payment.
- View their Vehicle's Breakdown details



FOR LESSEE / LICENSEE

- View monthly lease instalment status.
- View mineral sale report (as per TP) issued from their lease/stock.
- View lease wise notices and make payment.



FOR ENFORCEMENT AUTHORITIES

- EASY Check of vehicle's document.



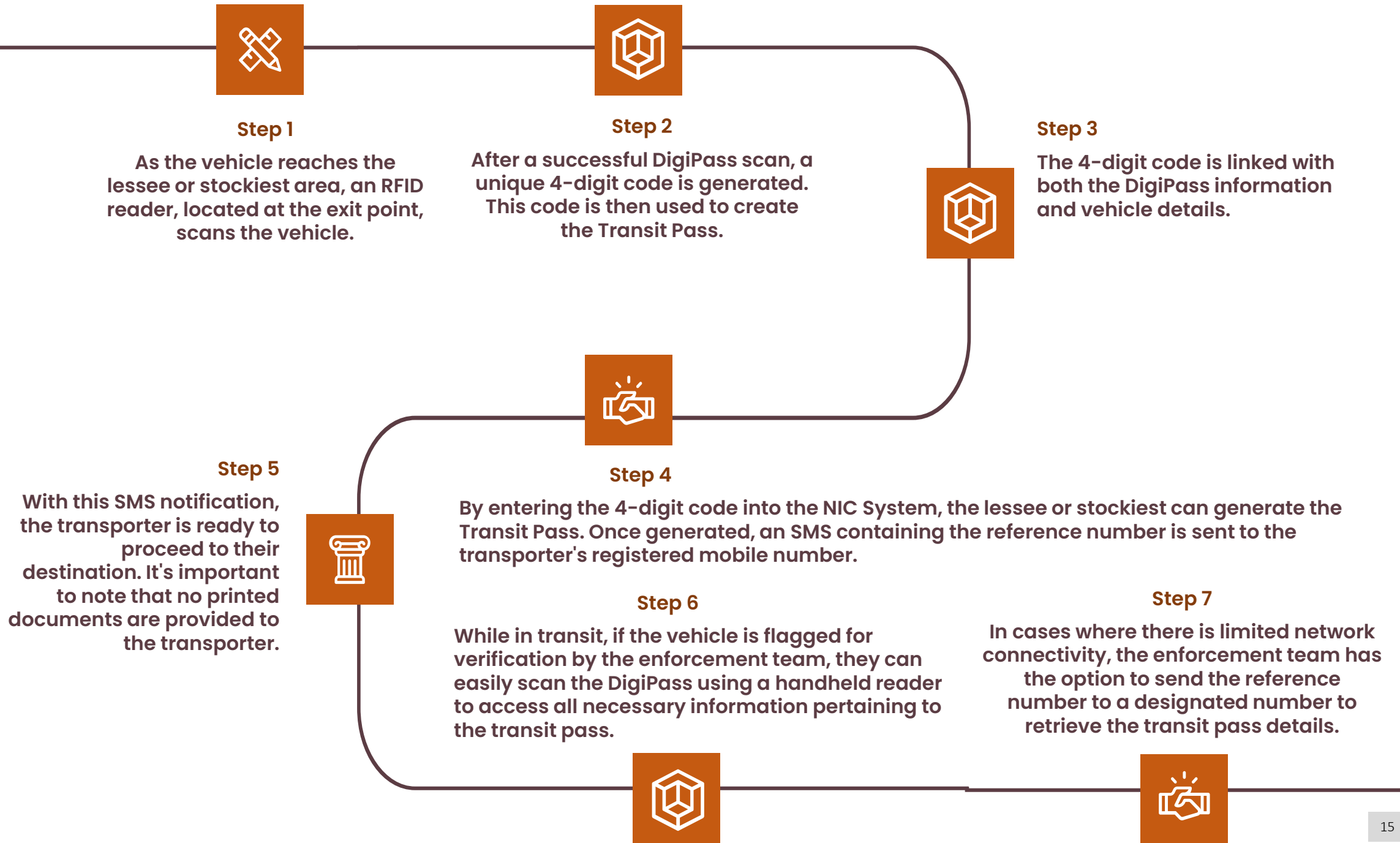
FOR CONSTRUCTION AGENCIES CONTRACTOR

- Get contactless Digital Transit Pass from Vehicle Driver for their record purposes

Note :

1. Data in QR Code will stored in encrypted form and cannot alter. This will be usable only by scanning through departmental Mobile App.
2. To achieve above mentioned features, department needs to develop new functionality in the existing MineMitra & mCheck mobile App.

PROPOSED WORKFLOW



Pre Requisites for the Enablement of the DigiPass/Digi Transit Pass/MinePass –

- ✓ RFID Readers stationed at the premises of both the lessee/stockiest and the Interstate Transit Pass provider.
- ✓ Pan-Tilt-Zoom (PTZ) Cameras employed to capture vehicle number plates and additional photographic evidence.
- ✓ The development of APIs and their integration with the existing Command and Control center at the Department of Geology and Mining (DGM).
- ✓ Distribution of RFID handheld readers to the inspection staff across various districts.
- ✓ A web and mobile portal designed to enable stakeholders, lessees, and stockists to access and review Transit Pass information.
- ✓ An SMS system established to facilitate the viewing of Transit Pass details.
- ✓ Modifications to the existing NIC Transit Pass system to incorporate the functionalities of 'DigiPass/Digi Transit Pass/MinePass.'

Proposed Outcomes & Benefits

Upon the successful implementation of '**DigiPass/Digi Transit Pass/MinePass,**' the Department of Geology and Mining (DGM) can anticipate the following outcomes:

01

Transition to a paperless transit pass system, resulting in cost reductions for both DGM and its partners, including lessees and stockists.

02

A comprehensive and effective crackdown on counterfeiting of transit passes.

07

Digitization of transit passes, simplifying integration and data sharing with other stakeholders and departments.

03

Improved enforcement and broader acceptance of DigiPass.

04

Enhanced efficiency at check gates, given that DigiPasss serve as the new Transit Pass ID.

05

Significant reduction in the time required for manual inspections.

06

Streamlined management of historical transit passes for stakeholders, ensuring ease of access for future use.

The background features a dark blue gradient. On the left, there is a faint line chart with a vertical axis ranging from 0 to 12,000 in increments of 2,000 and a horizontal axis with labels for the months of the year (Jan to Dec). A blue line with circular markers is plotted, showing a slight upward trend from January to March, followed by a dip in April and then a steady increase through the rest of the year. A solid blue horizontal bar is positioned below the chart, spanning from January to March. On the right side of the background, there is a faint, semi-transparent silhouette of a person in a business suit, holding a tablet or document.

In conclusion, transitioning from paper-based processes to technology-driven solutions offers a wide array of benefits, including enhanced security, reduced risk of counterfeiting, increased efficiency, cost savings, and improved traceability. These advantages not only mitigate the risks associated with counterfeiting but also contribute to more streamlined and effective operations.

Thank you

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