



AEP PRESENTS ITS
EMV CONTACTLESS SOLUTION
FOR DEBIT / CREDIT CARDS

THE NEW PUBLIC TRANSPORT EXPERIENCE



THE EMV
CONTACTLESS CARDS
ARE THE SMARTER,
SAFER AND FASTER
WAY OF PAYMENT



YOU CAN PAY WITH A
SINGLE TAP WITH AN
INTEGRATED AND
COMPLETE SECURITY

THE CARD WILL
NEVER LEAVE YOUR
HANDS





YOU CAN PAY
CONTACTLESS
YOUR PURCHASES
ALMOST
EVERYWHERE

THANKS TO AEP
YOU CAN NOW USE
**YOUR CREDIT
CARD** EVEN ON
BUS OR METRO!



A **NEW WAY** TO
EXPERIENCE PUBLIC TRANSPORT

A **GREEN SOLUTION**,
LESS STRESSY
AND MUCH **SMART**

YOU'LL LOVE IT
FROM **THE**
BEGINNING!





QUEUES WILL BE
ONLY AN ANCIENT
MEMORY!

et  pass

IS THE AEP PRODUCT
WHICH MAKES IT POSSIBLE

VERY COMPLEX INSIDE
FOR BEING
TOTALLY SIMPLE OUTSIDE

ADOPTING THE TRANSPORT FOR LONDON MODEL

EASY AND SAFE
YOU'LL ONLY HAVE TO
VALIDATE AT EACH
ENTRY



ALL THE
CONTACTLESS CARDS
PROVIDED BY THE
MAIN INTERNATIONAL
CIRCUIT
ARE SUPPORTED

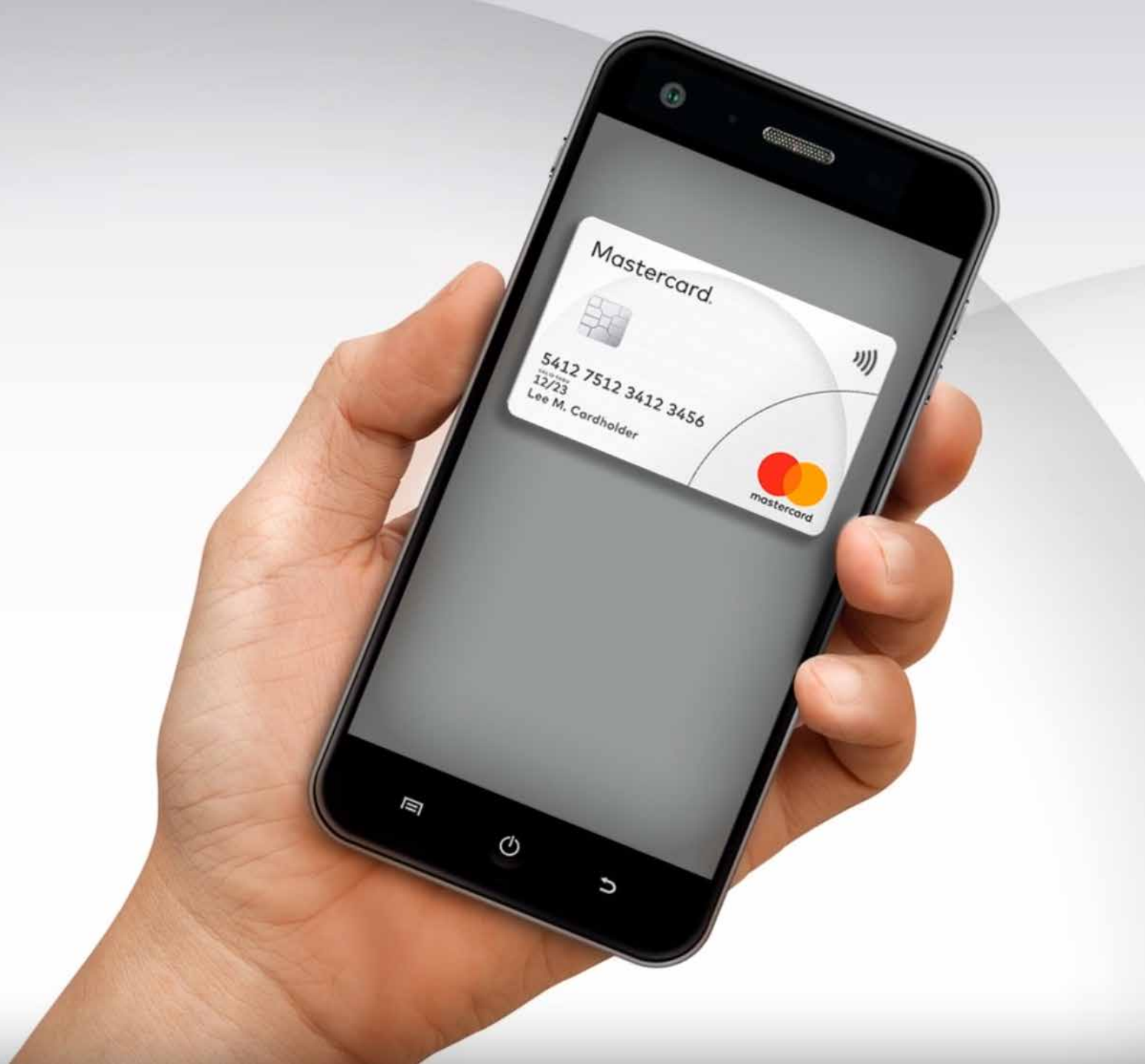


READY FOR:



PHYSICAL CARD IS
NO MORE NECESSARY

YOU CAN USE YOUR
SMARTPHONE
APPLE OR ANDROID!



EVEN ON THE
DRIVER CONSOLE
(IF ANY)

20/12/2018 10:01
CARTA ACCETATA

09/01/2018 12:17

Bus
1234 Agente
5555 Corsa
06:37

06:15 - 07:28

Seleziona il titolo:

LMW

AEP
Ticketing solutions





EVEN FOR YOUR FAMILY!

MULTI-PASSENGER CONFIGURATION IS SUPPORTED



IT'S CONVENIENT!

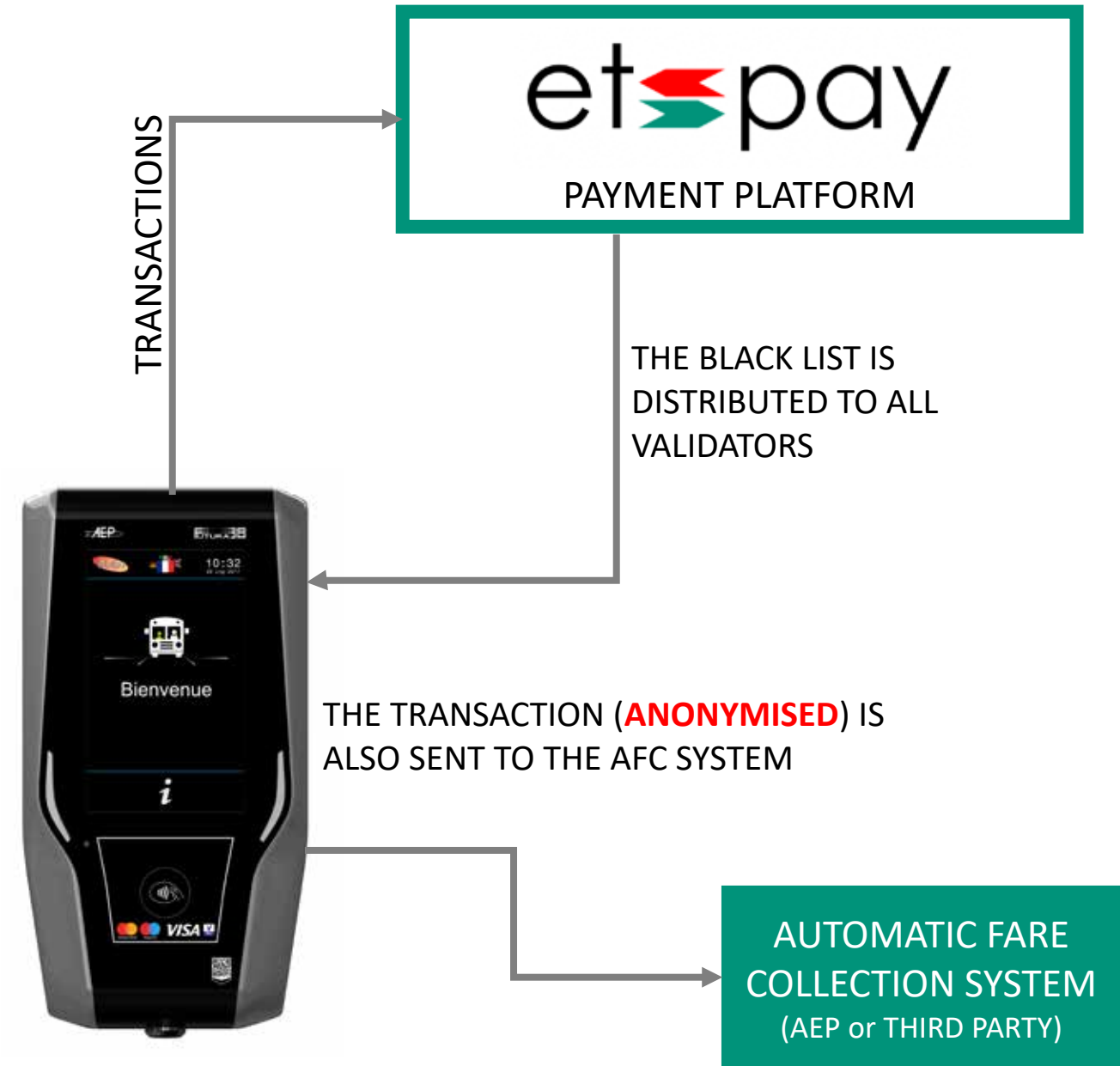
**BY NIGHT, THE
BEST FARE WILL
BE CALCULATED
AND APPLIED,
BASED ON YOUR
JOURNEYS**

AT THE FIRST TAP, THE
BANK CARDS ARE
ALWAYS ACCEPTED



THE TRANSACTION IS
SENT TO THE
PAYMENT PLATFORM

IF THE TRANSACTION
FAILS, THE CARD IS
BLACK LISTED



THE **BLACK-LISTED**
CARDS
ARE IMMEDIATELY
REFUSED



WHY IS YOUR CARD ADDED TO A BLACK LIST

- Because your card has been blocked and the *acquirer* refused the transaction
- Because the payment is not correctly performed (ex. un case of lack of funding)

WHEN YOUR CARD IS TAKEN OUT FROM A BLACK LIST

- Because the **payment retry** succeed
- Because you performed the payment through **a different way**
- Because after some time passed you **show again your card**, with enough funding, and the system recovered the pending transaction(s)

KEEP UNDER **CONTROL**
YOUR JOURNEYS IN AN
EASY WAY USING THE
CUSTOMER PORTAL

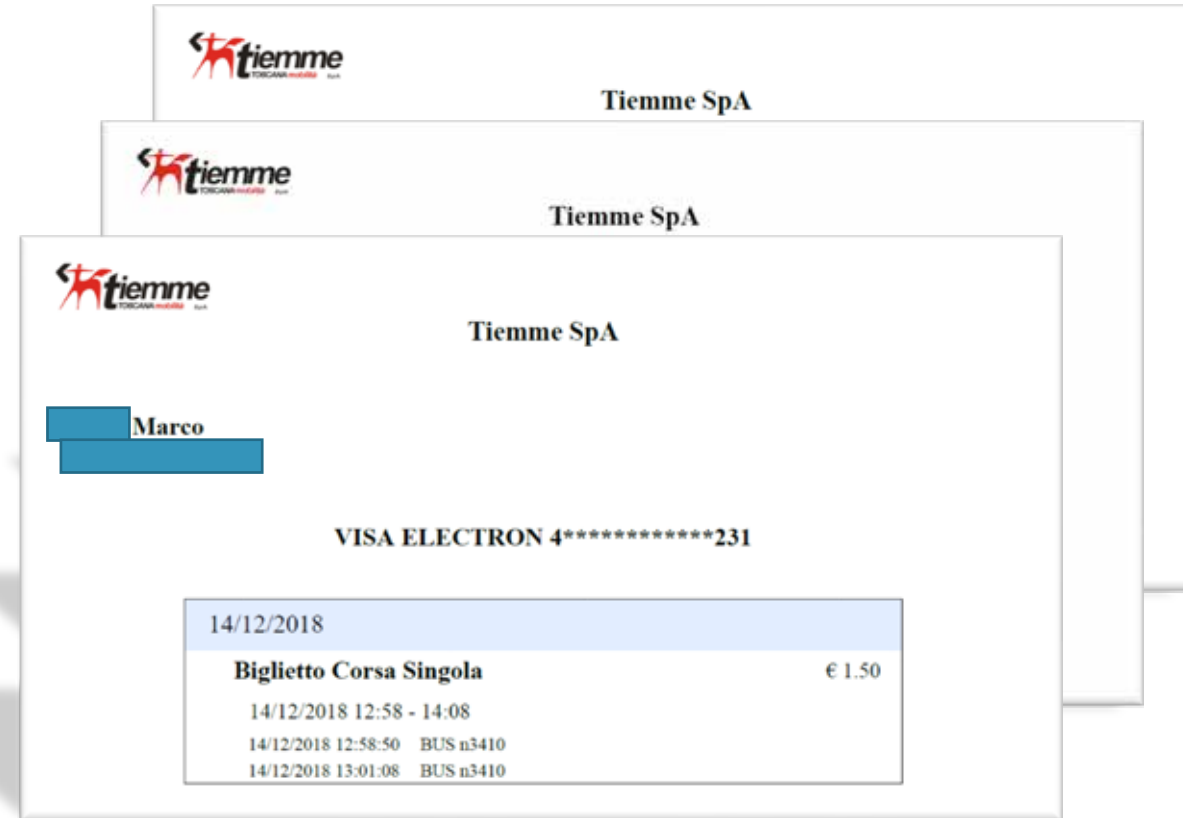


Consultazione dei viaggi effettuati con Tiemme.
Se non hai ancora un account, [clicca qui](#).

[Password dimenticata?](#)

BE COMPLIANT AND
GET AN **AUTOMATIC**
(PDF) RECEIPT FOR
EACH OF YOUR
TICKET

DOWNLOAD IT FROM
THE **CUSTOMER**
PORTAL USING YOUR
CREDENTIALS





WHAT ABOUT CONTROL ONBOARD?

YOU ONLY HAVE TO
COMMUNICATE THE
LAST 4 DIGITS OF YOUR
CARD

THE SYSTEM IS «**FRAUD
RESISTANT**», NOBODY WILL
EVER ASK YOU TO SHOW YOUR
CREDIT CARD (USE IT ONLY ON
THE TICKETING DEVICES!)

WHAT ABOUT THE
COMPANY
POINT OF VIEW?



THE COMPANY
RECEIVES THE
AMOUNTS
DIRECTLY ON ITS
BANK ACCOUNT

EVERYTHING IS
ALWAYS
UNDER CONTROL
IN REAL TIME



MINOR COSTS IN TERMS OF SALES NETWORK

NO DOC HAS TO BE
PRINTED

NO RESALE HAS TO BE
MANAGED

NO EXTERNAL
PERSONNEL HAS TO BE
TRAINED

NO DEBT HAS TO BE
RECOVERED

ALL THE
ADVANTAGES
OF ONBOARD SALES
AND NONE OF THE
DISADVANTAGES

SAVE UP TO 15 SEC PER TICKET
WHICH MEANS

RESPECT THE TIMETABLES

A BETTER TRANSPORT

FUEL SAVINGS

LESS POLLUTION

... AND NO CASH MANAGEMENT!



REDUCE THE LAZINESS EVASION

MANY OF EVADERS WOULD
BE HAPPY TO AVOID THE
EMBARRASSEMENT OF A
FINE!



WE'RE WRITING WITH YOU
A **NEW CHAPTER**
IN THE HISTORY OF
ELECTRONIC
TICKETING...

Emv

DEC 6TH 2017 - MOM TREVISO

THE FIRST IN ITALY

- BASED ON THE TFL MODEL
- NO NEED OF OTHER DEVICES THAN THE VALIDATORS
- CERTIFIED FOR MOBILE VEHICLES
- WORKS ALSO IN CASE OF LACK OF CONNECTIVITY



Nov 5TH 2018: FILIBUS CHARTRES

THE FIRST IN FRANCE

THAT:

- IS BASED ON THE **TFL MODEL**
- COVER THE ENTIRE **URBAN SYSTEM**
- NO NEED OF **OTHER DEVICES** THAN THE VALIDATORS
- CERTIFIED FOR **MOBILE VEHICLES**
- WORKS ALSO IN CASE OF **LACK OF CONNECTIVITY**



Communiqués de presse

Mastercard, partenaire de l' open payment à Chartres

Mastercard apporte son expertise et soutien dans le lancement de l'utilisation de la carte de paiement sans contact comme titre de transport dans le réseau Filibus, opérateur de transport dans l'agglomération de Chartres Métropole, en collaboration avec AEP Ticketing Solutions. Grâce à l'open payment, l'expérience usager devient simple, rapide et pratique.



DEC 20TH 2018 - ARRIVA SADEM, TORINO-CASELLE LINE

FIRST IN ITALY

THAT:

- IS BASED ON THE **TFL MODEL**
- **BEST FARE** FOR ROUND TRIP
- SUPPORTS A **MULTI-PASSENGER FARE**
- NO NEED OF **OTHER DEVICES** THAN THE VALIDATORS
- CERTIFIED FOR **MOBILE VEHICLES**
- WORKS ALSO IN CASE OF **LACK OF CONNECTIVITY**



arriva sadem
a DB company

LA TUA CARTA)))
E' IL TUO BIGLIETTO

SALTA LA FILA IN BIGLIETTERIA
E SALI A BORDO

FACILE



VELOCE



SICURO



Comunicati Stampa

Inaugurato il pagamento contactless sulla linea Torino Centro – Aeroporto di Torino

Una modalità che consentirà una più agevole alternativa per l'acquisto del titolo di viaggio

Torino, 20 dicembre 2018 – È stata inaugurata oggi, alla presenza dell'Assessore all'Istruzione, Lavoro, Formazione Professionale, Giovanna Pentenero, del Presidente della Commissione Trasporti Nadia Conticelli, dell'Assessore all'Innovazione della Città di Torino Paola Pisano e delle autorità locali, il pagamento di titoli di viaggio con carte contactless sulla linea Torino Centro – Aeroporto di Torino di ARRIVA SADEM. Il nuovo servizio è stato realizzato con la collaborazione di MASTERCARD, AEP e SAGAT TORINO AIRPORT.

DEC 21ST 2018 - TIEMME GROSSETO

THE FIRST IN ITALY

THAT:

- IS BASED ON THE **TFL MODEL**
- COVERS THE ENTIRE **URBAN SYSTEM**
- NO NEED OF **OTHER DEVICES** THAN THE VALIDATORS
- CERTIFIED FOR **MOBILE VEHICLES**
- WORKS ALSO IN CASE OF **LACK OF CONNECTIVITY**



Comunicati Stampa

A Grosseto basta un bip per fare il biglietto a bordo del bus

Tiemme lancia il nuovo sistema di pagamento del titolo di viaggio urbano con carte di credito contactless: è il primo esempio applicato all'intera rete del trasporto pubblico urbano in Italia

Rendere sempre più facile utilizzare l'autobus. È questo l'obiettivo del nuovo progetto di monetica che Tiemme lancia per la prima volta in Italia a Grosseto per consentire l'acquisto del ticket con un semplice bip. Ovvero il suono che si genera quando la propria carta di credito viene avvicinata alle nuove validatrici di bordo.

tiemme **One** **AEP** **Comune di Grosseto** **mastercard**

La S.V. è invitata a partecipare alla presentazione di **BASTA UN BIP PER SALIRE A BORDO**

il progetto di Tiemme che consente di pagare il **ticket urbano** con la **carta di credito contactless**

Venerdì **21 dicembre 2018** presso la **Sala Consiliare** del Comune di Grosseto Piazza Duomo

ore **11.00** **Presentazione del progetto**

- Saluto introduttivo di Fausto Turbanti Assessore ai Trasporti del Comune di Grosseto
- Introduzione e illustrazione del progetto a cura di Massimiliano Dindalini Presidente Tiemme Spa
- Piero Sassoli Direttore Generale Tiemme Spa
- Approfondimento tecnico a cura di Mastercard
- Approfondimento tecnico a cura di AEP

ore **12.00** **Inaugurazione e conferenza stampa**

REALISED IN PARTNERSHIP
WITH
MASTERCARD

ONE OF THE **WORLD LEADERS**
FOR CREDIT CARD PAYMENT

OFFERS SERVICES WHICH WELL
INTEGRATE THE PAYMENT
BETWEEN BANKS, **ISSUERS** AND
ACQUIRERS

MASTERCARD CAN BE USED
EVERYWHERE TO **REPLACE** CASH

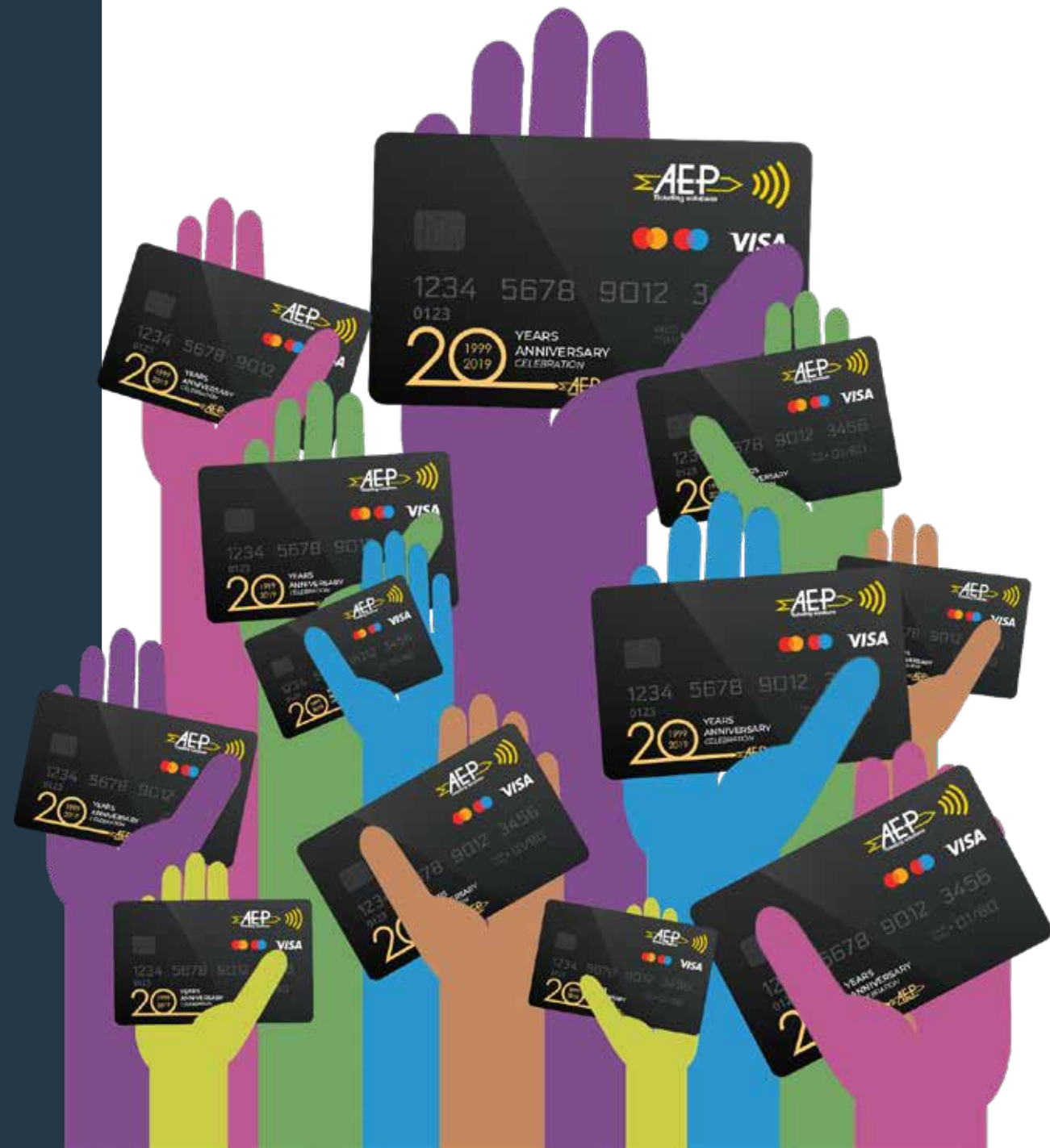
MASTERCARD IS THE FIRST LINE
IN TERMS È OF SECURITY AND
TECHNOLOGICAL EVOLUTION



mastercard

WHAT'S NEXT?

- TIEMME LINEA FI-SI-S.GIMIGNANO
- CTPI VARESE
- MARCONI EXPRESS BOLOGNA



PROUD OF IT!

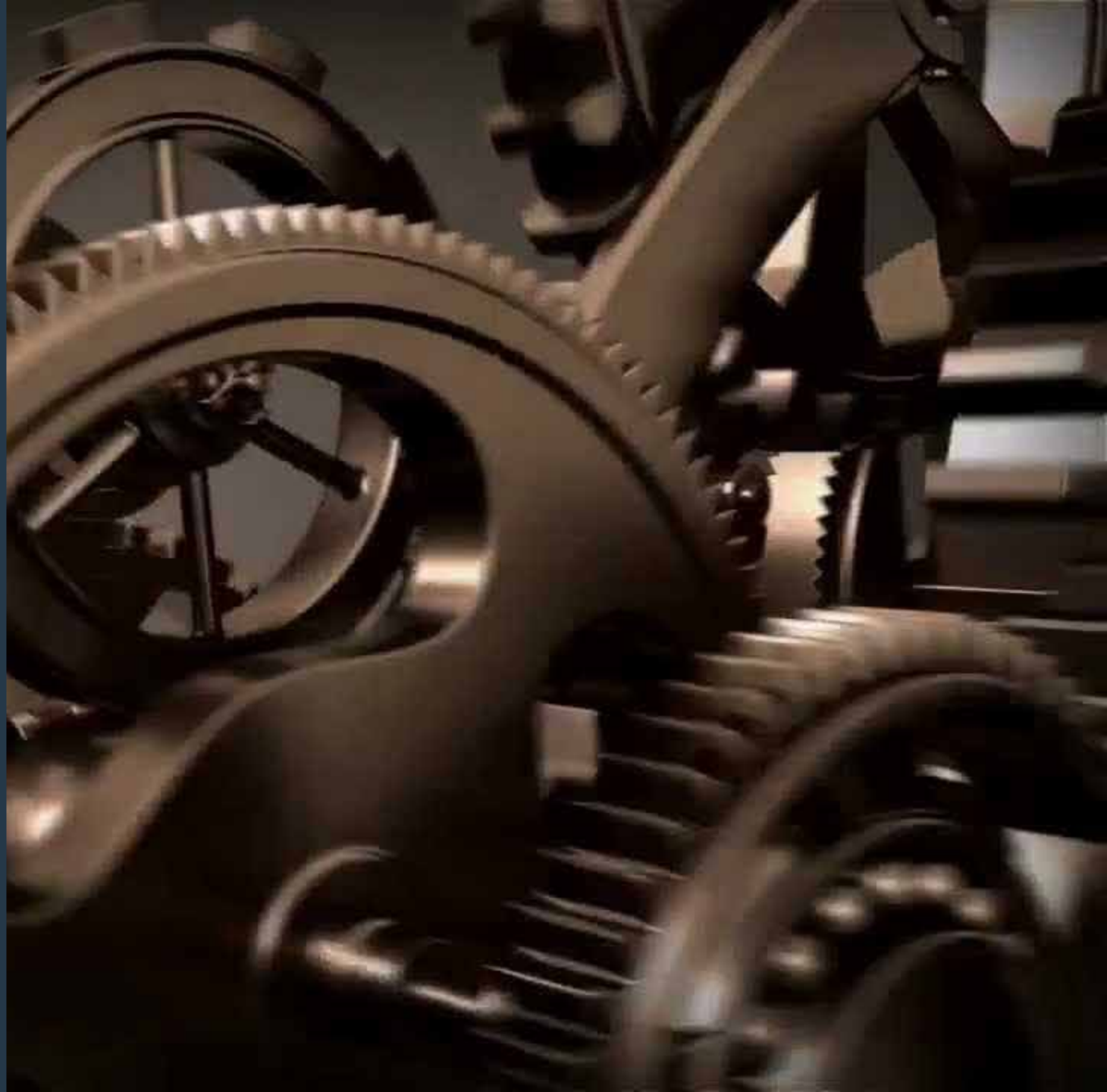
AEP is proud for its
achievements and to
contribute to the innovation of
Automatic Fare Collection Systems



SECOND PART

DO YOU WANT TO
KNOW SOMETHING
MORE?

WE HAVE SOME
EXTRA INFO
FOR YOU

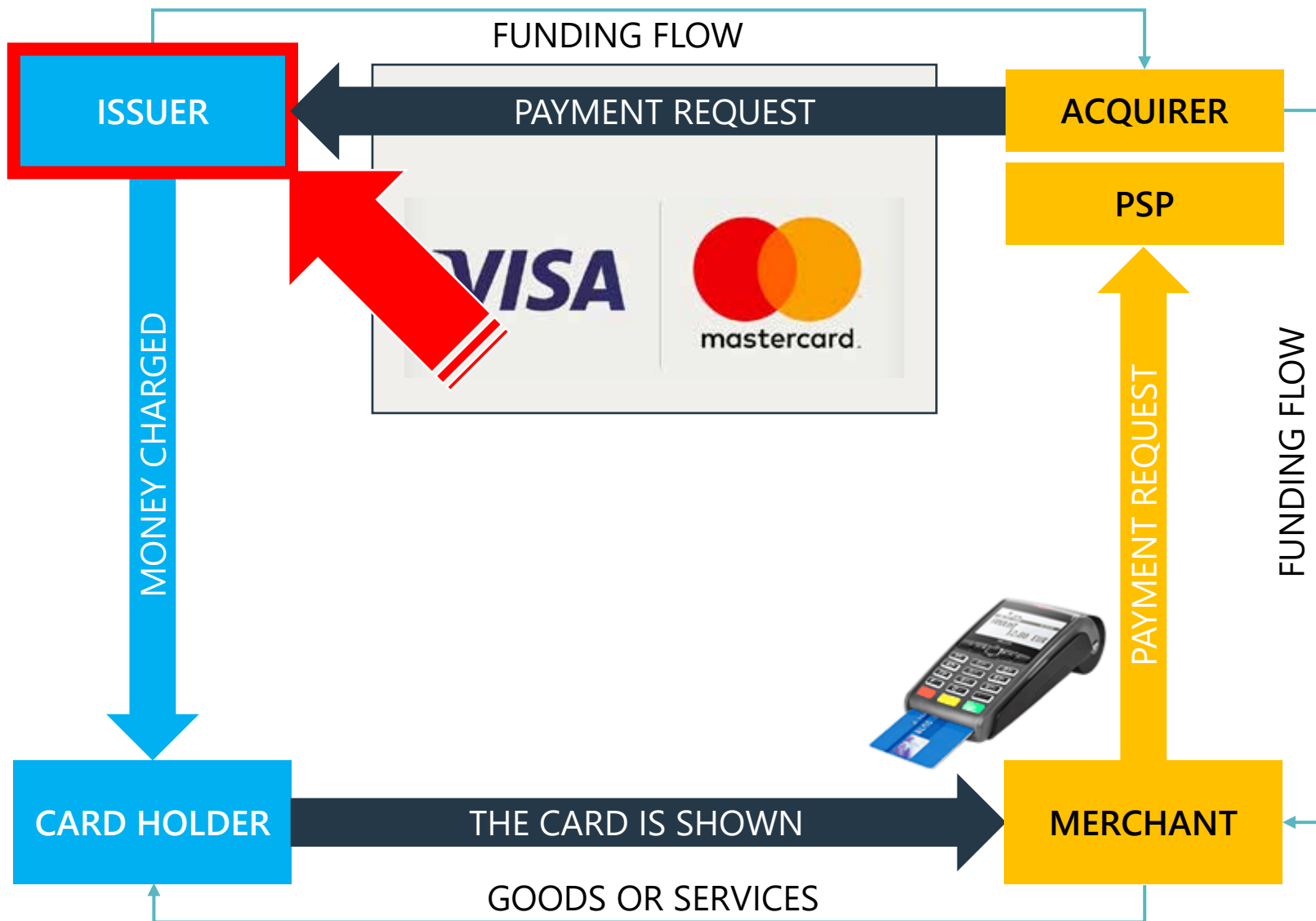


TRADITIONAL **ELETRONIC** PAYMENT SOME DETAILS

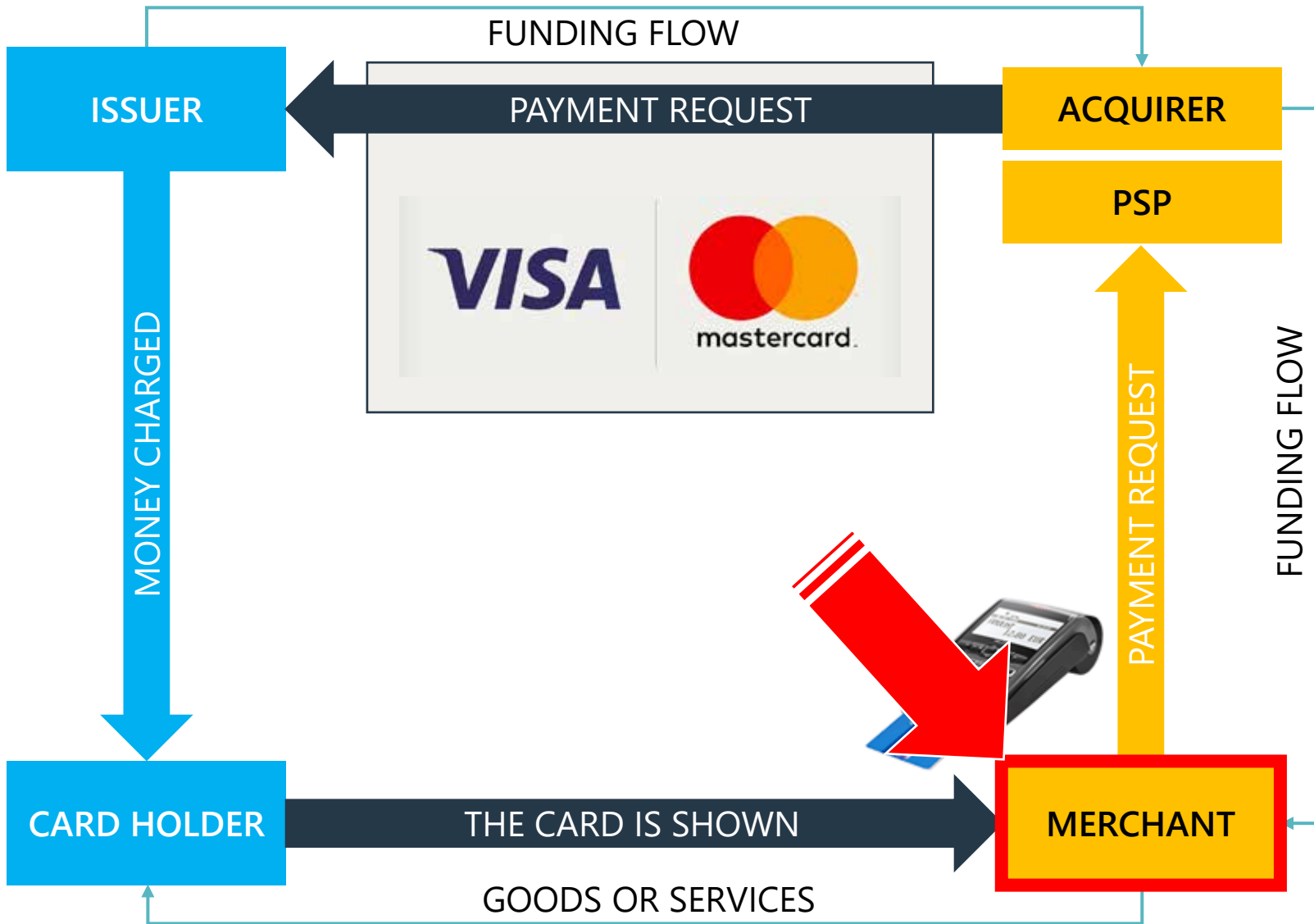




TERMINOLOGY

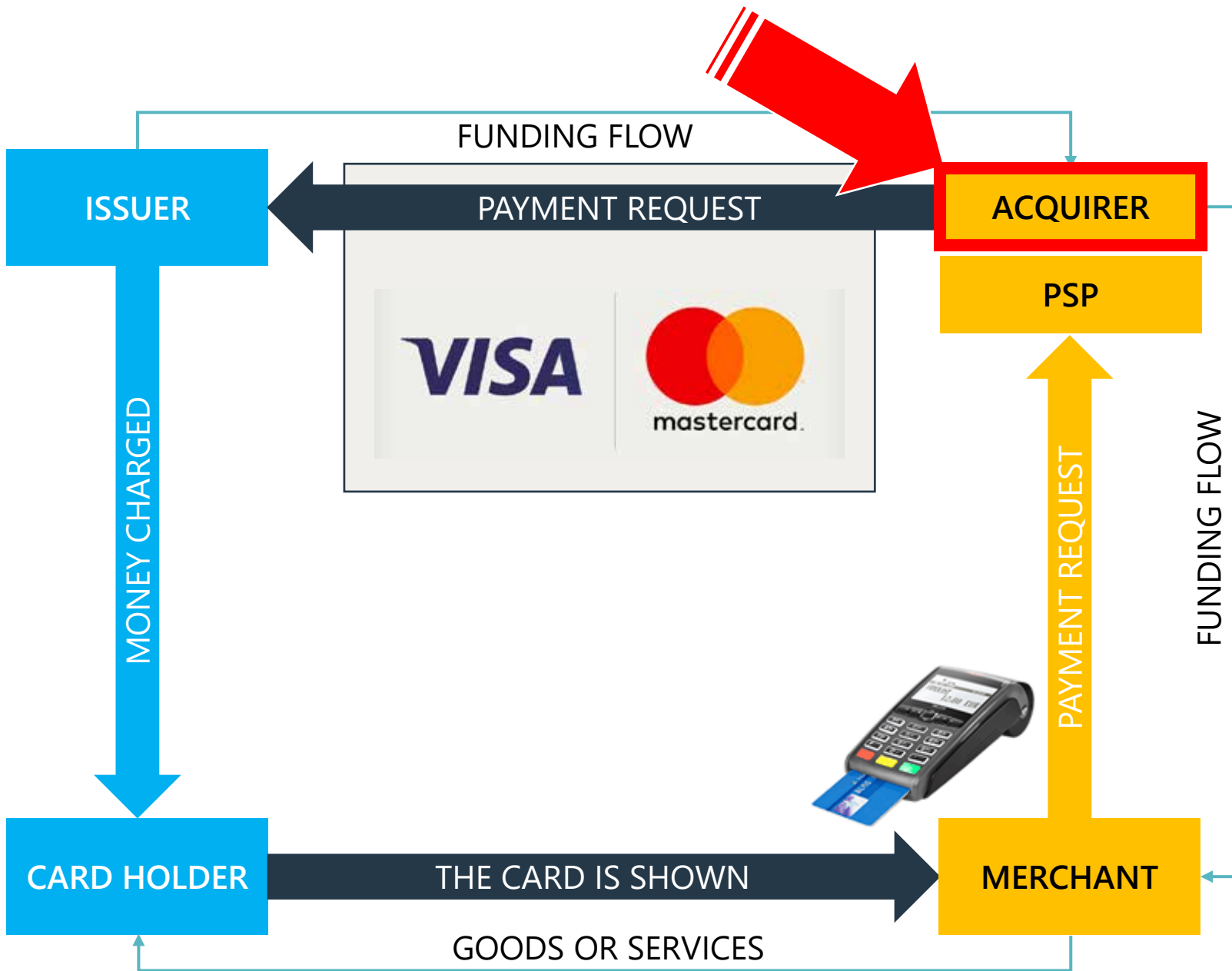


ISSUER
THE BANK
WHICH
PROVIDES THE
CARD AND
CHARGES FOR
YOUR
PURCHASES

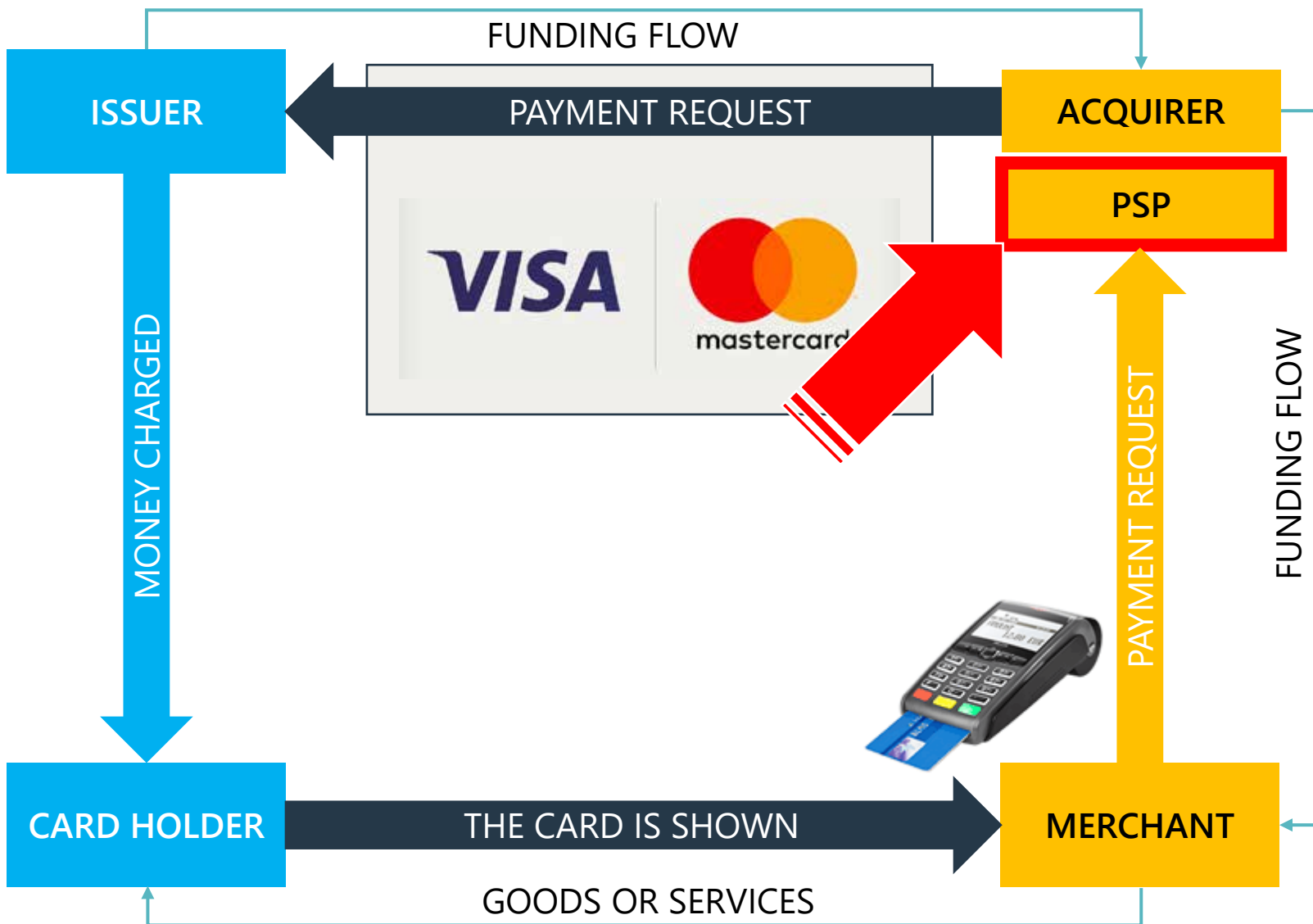


MERCHANT
 THE OPERATOR
 WHO SELLS
 GOODS OR
 SERVICES

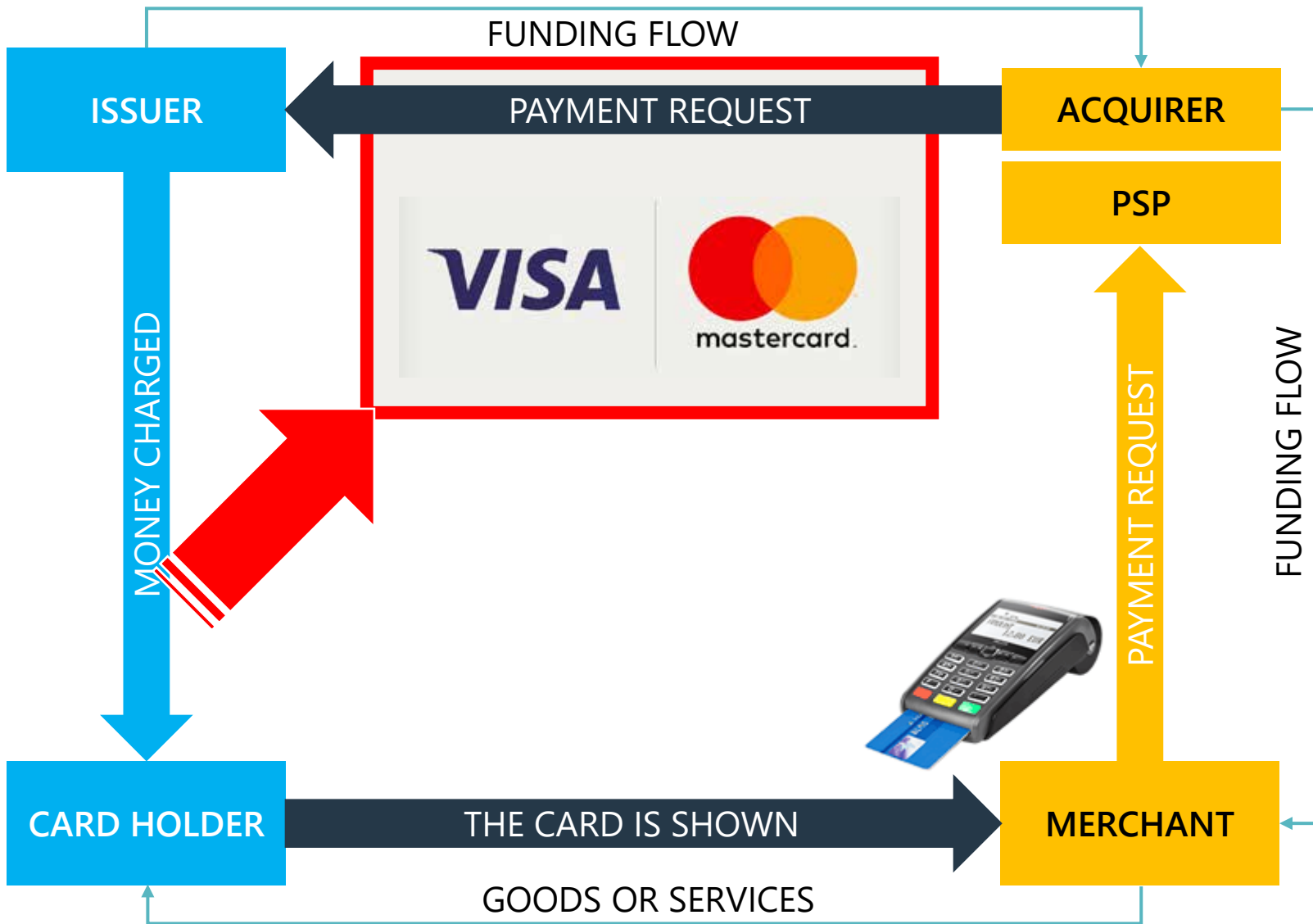
(THE COMPANY IN
 OUR CASE)



ACQUIRER
 IT PROVIDES
 THE «POS» TO
 THE MERCHANT
 AND ALL THE
 SERVICES



PAYMENT SERVICE PROVIDER
IT PROVIDES THE (TECHNICAL) SERVICES TO THE ACQUIRER



CIRCUIT
 CONVEYS THE
 TRANSACTIONS
 BETWEEN THE
 ACQUIRER AND
 THE ISSUER



- **EMVco** manages, maintains and improves the EMV specs establishing and administering the test and approval criteria (and processes) to determine the compliance to the specs. EMVCo is now owned by American Express, JCB, MasterCard

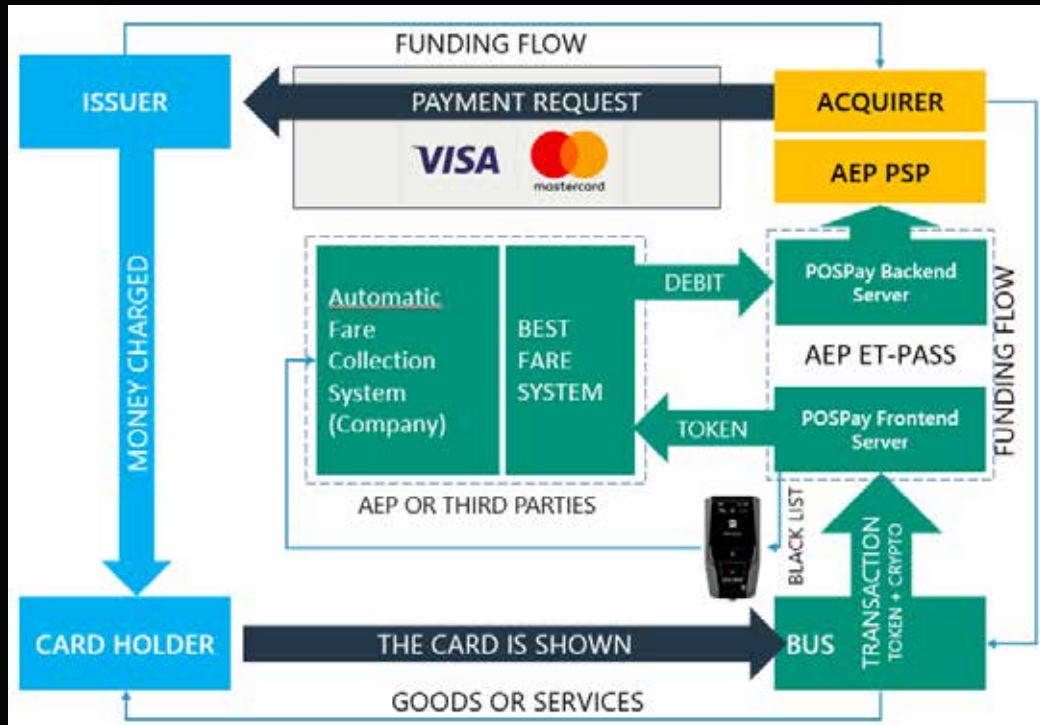


- **PCI** Payment Card Industry Security Standards Council is an institution for the process of developing, valuing, storing, adopting and enforcing the data protection security standards for banking cards. It has been created to increase the control on Card Holders and to reduce fraud

**REGULATORY
AUTHORITIES
DEFINE RULES
AND
GUIDELINES
FOR CARDS,
TERMINALS
AND
PROCESSES**

et pass

THE FULL SOLUTION
PERFECT FOR MANY, NOT FOR EVERYONE



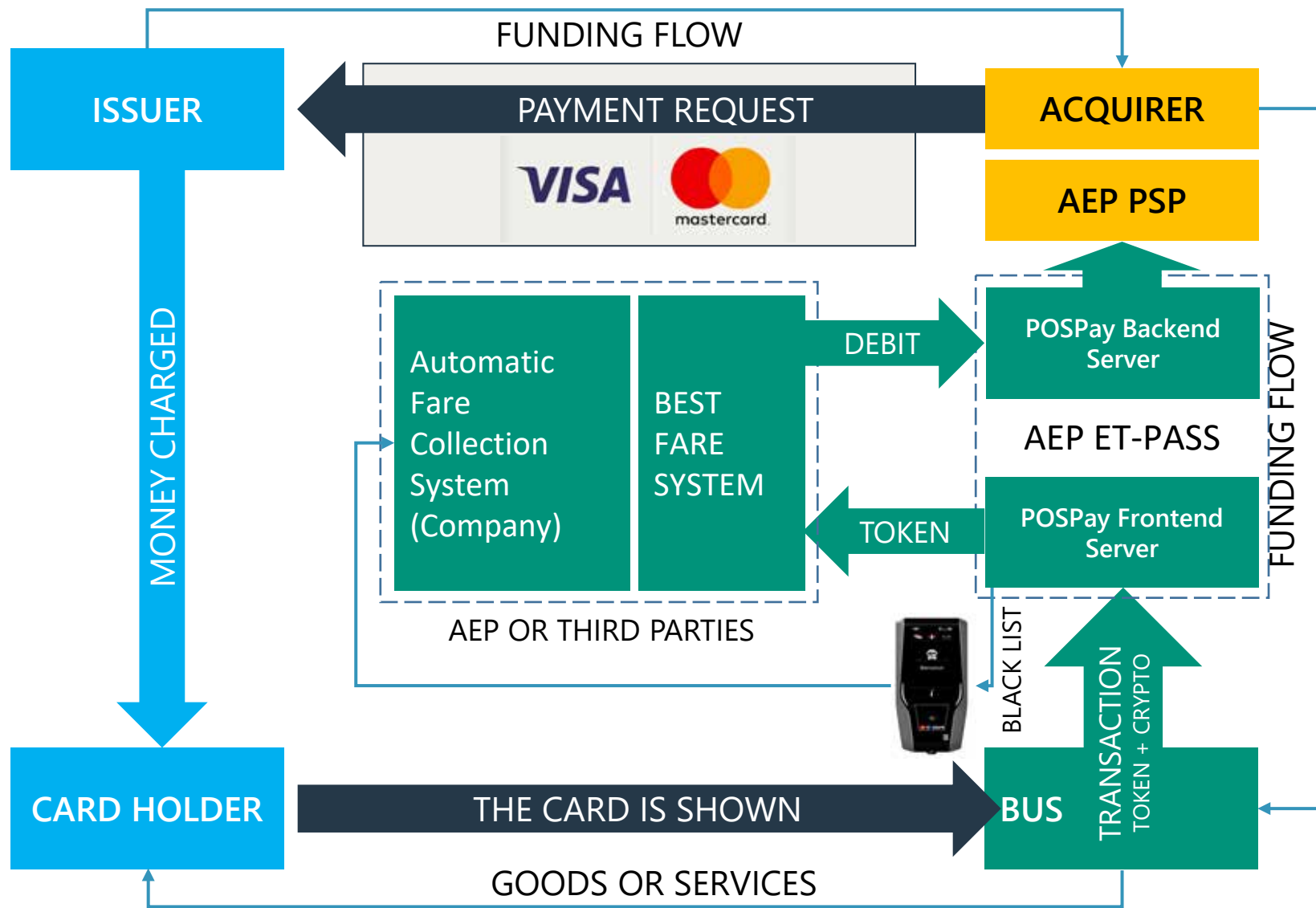

Ticketing solutions

et pay

THE TURNKEY SOLUTION FOR A
DEMOCRATIC MOBILE
PAYMENT
INCLUDES ET-PASS SERVICES



ET-PASS IS THE COMPLETE
MODULE PROVIDED BY AEP
AND ALIGNED TO THE
MODEL
TRANSPORT FOR LONDON



et pass

BRIEF RECAP



AEP DEVICES ALREADY OWNS ALL THE MANDATORY CERTIFICATIONS

EMVCO LEVEL 1
EMVCO LEVEL 2
PCI-PTS
MASTERCARD
VISA



THE ET-PAY
PLATFORM BRINGS
A NEW CONCEPT
OF **DEMOCRACY**
TO CONTACTLESS
PAYMENT SYSTEMS





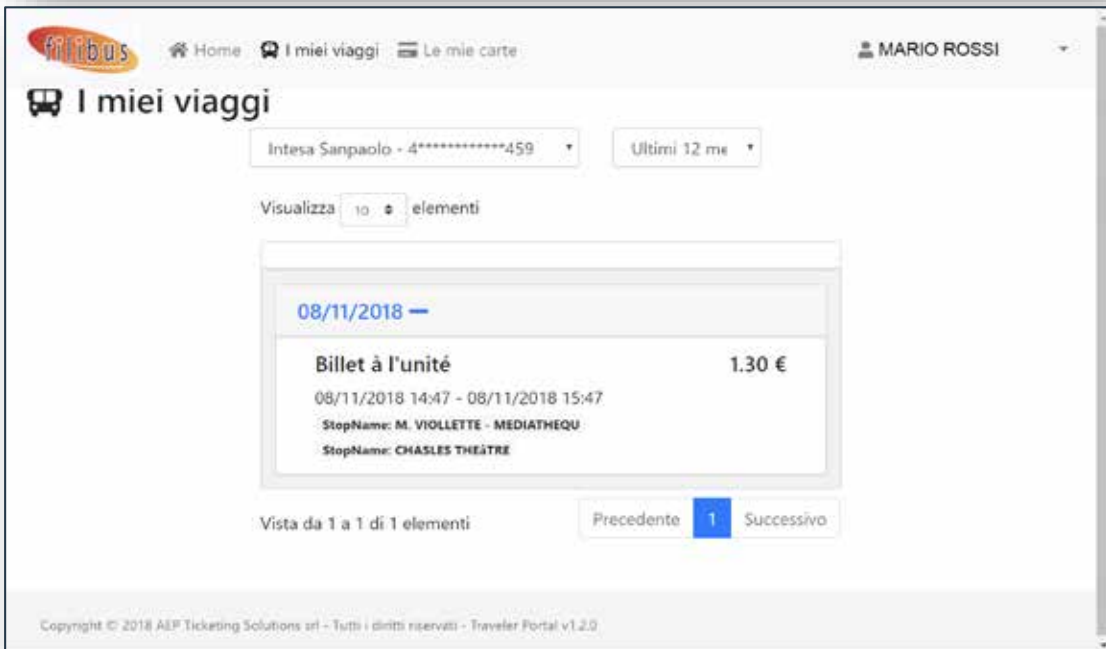
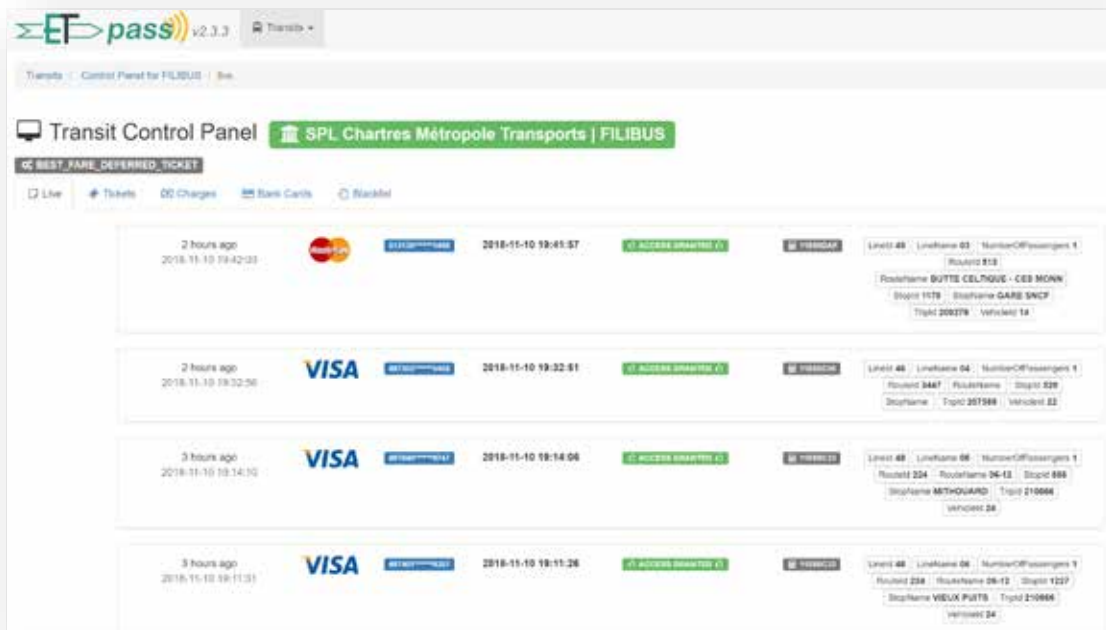
ET-PAY IS A TURNKEY
SOLUTION,
READY TO GO, WHICH
CAN BE TURNED ON
EASILY, IN A SHORT TIME
FOR COMPANIES
OF ANY SIZE





**NO OTHER CERTIFICATION
IS NEEDED!**





IT INCLUDES
ALL THE SERVICES

COMPANY PORTAL
CUSTOMER PORTAL
INSPECTOR PORTAL
REMOTE TERMINAL
MANAGEMENT



WHY CHOOSE AEP?





Algeria



Kazakhstan



Canada



Nigeria



Egypt



Poland



France



Portugal



Greece



Romania



Israel



USA



Italy



Turkey

50+ AFCS
60.000 DEVICES

AEP HAS DEVELOPED
IN-HOUSE
THE EMV SOLUTION
SPECIFICALLY DESIGNED
FOR PUBLIC TRANSPORT

THE EMV OPEN PAYMENT IS FULLY INTEGRATED WITH AEP SOLUTIONS FOR ELECTRONIC TICKETING SYSTEMS



10 BUS



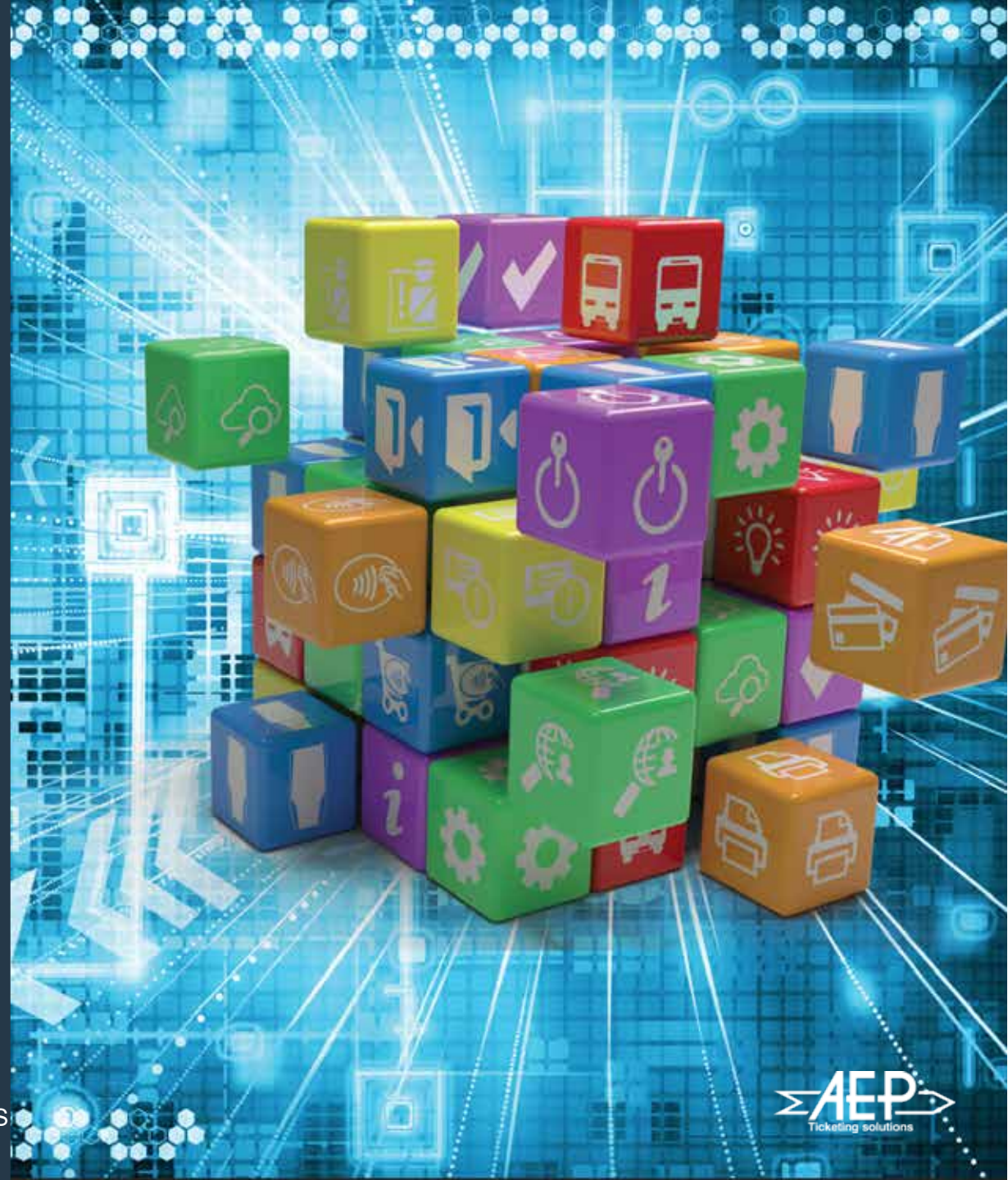
100 BUS



500 BUS



2.000+ BUS



AEP OPEN PAYMENT
SOLUTIONS
ARE OPEN
AND COULD BE INTEGRATED
WITH THIRD PARTIES SYSTEMS

HARDWARE
SOFTWARE
KNOW-HOW
PROVIDED BY
ONE SINGLE PARTNER

THE RICHNESS OF OUR CATALOGUE
AND THE VARIETY OF PRODUCTS
MAKE IT POSSIBLE TO USE
EVERYWHERE
AEP TICKETING SOLUTIONS





VALIDATOR FUTURA 3ALX

- HEIR OF THE "GLORIOUS" FUTURA 3A, THE AEP PRODUCT OF GREATEST SUCCESS
- 4,3" COLOR DISPLAY
- CAPACITIVE PROJECTED TOUCH
- VALIDATION OF CONTACTLESS CARDS, BANK CARDS AND QR-CODES
- OPTICAL READER OF INDUSTRIAL QUALITY
- UP TO 4 SAM
- WI-FI, 3G/4G, BLUETOOTH LE, ETHERNET, RS-232, RS-485
- 0.5G DRAM, 8G INDUSTRIAL SD
- USB CONNECTOR WITH KEY LOCK
- STANDARD MOUNTING, INSTALLABLE ON EXISTING SUPPORTS

MULTIMEDIA VALIDATOR FUTURA 3B



- DESIGNED BY GIUGIARO, TOP OF AEP RANGE
- 7" COLOR DISPLAY WITH 6MM SECURITY CRYSTAL
- CAPACITIVE PROJECTED TOUCH
- ANIMATIONS AND MOVIES
- VALIDATION OF CONTACTLESS CARDS, BANK CARDS AND QR-CODES
- OPTICAL READER OF INDUSTRIAL QUALITY
- UP TO 4 SAM
- RGB LIGHT BARS
- POWER AUDIO WITH VOICE SYNTHESIS
- WI-FI, 3G/4G, BLUETOOTH LE, ETHERNET, RS-232, RS-485
- 1G DRAM, 8G INDUSTRIAL SD
- USB CONNECTOR WITH KEY LOCK
- STANDARD MOUNTING, INSTALLABLE ON EXISTING SUPPORTS
- SPECIAL SUPPORT WITH "TRAFIC-LIGHT" TOP



TOUCH 6MM
CAPACITIVO
PROIETTATO

BARRE
LED RGB

EMV LEV.1
EMV LEV.2
PCI-PTS 4



MULTIFUNCTION UNIT CDB-6 PLUS

- ON-BOARD COMPUTER AND VALIDATOR
- DRIVER CONSOLE WITH TOUCH
- FMS WITH GPS-3 MODULE
- SELL & RELOAD STATION
- THERMAL PRINTER
- VALIDATOR
 - SEPARATE USER DISPLAY
 - CONTACTLESS CARDS
 - BANK CARDS
 - QR-CODE
 - UP TO 4 SAM
- WATER-PROOF USER KEYPAD
- WI-FI AND 4G
- COMPACT AND REMOVABLE
- TESTED IN THOUSANDS OF UNITS



TO SUPPORT MAGNETIC TICKETS

FUTURA 4A

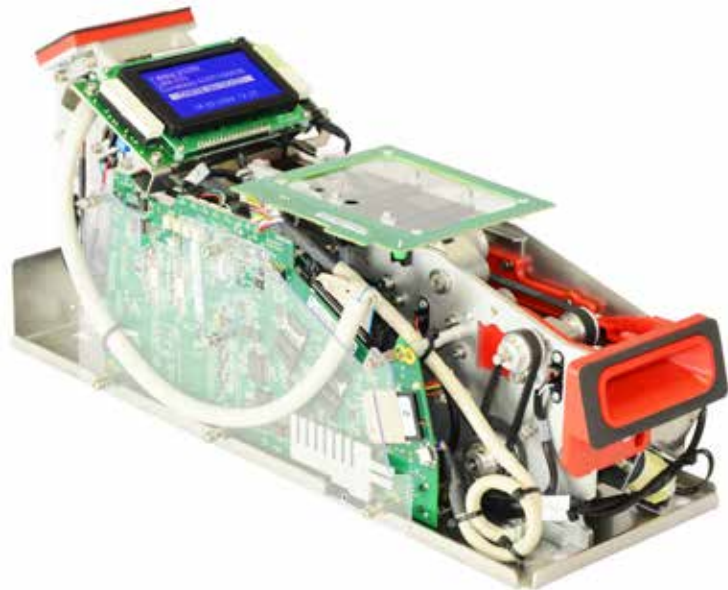
- Able to validate contactless cards, bank cards and QR-code
- Hi-quality, industrial optical reader
- Up to 4 SAM
- ISO magnetic tickets and Edmondson
- Central and lateral magnetic bands
- Up to 4 insertion directions
- Autoreverse validation (using the central band)
- Progressive printing for multiple tickets
- Robust and proven all-metal mechanics
- Movement using double ball bearings
- Toothed drive belts
- Standard connection, can be installed on existing supports
- Able to adapt for gate installation (EPU-6)



COMBO VALIDATORS FOR GATE INSTALLATION

EPU-6

SEVERAL TYPE OF
INSTALLATIONS TO COVER
ALL YOUR NEEDS, FROM
METRO STATION TO
RAYLWAYS ONES





THE WIDE CHOICE OF
INTERFACES
(3G, 4G, WI-FI, BTLE, ETHERNET)
MAKES AEP SOLUTIONS GREAT
TO BE INSTALLED EVEN ON
TRAIN STATIONS
WITH OR WITHOUT OUR
CENTRAL SYSTEM

EVEN ON RAILWAYS

EMV ONLY TERMINAL **AEP ONE**

OPEN PAYMENT EMV
CONTACTLESS FOR
EVERYBODY

DON'T REQUIRE AN AFCS

**DON'T REQUIRES
WITH EXISTING AFCS**

**INTEGRABLE
IN EXISTING AFCS**

SIMPLE TO INSTALL

**INTEGRATED
3G/4G COMMUNICATION**

**ALL THE REQUIRED
CERTIFICATION**



COMPARE IT!



	ET-PASS	ET-PAY	Others?
One single provider for hardware, software and services	●	●	
One single device for Tickets, Transport Cards and Bank Cards	●	●	
Wide coverage of solutions: metro, railways and mobile vehicles	●	●	
Validation terminals with European automotive certification	●	●	
Already tested on mobile vehicles	●	●	
One only SIM card for both the ticketing and the EMV services	●	●	
Dedicated Customer portal	●	●	
Fully featured Company portal	●	●	
Fully featured Controller portal	●	●	
Remote terminal management, with the possibility to remotely update firmware and cryptographic keys	●	●	
Fully integrated on the Ticketing System	●	●	
Customer reports include date, time, bus, line and stop (= less claims!)	●	●	



COMPARE IT!



	ET-PASS	ET-PAY	Others?
An open solution which can be easily integrated on third parties systems	●	●	
A wide range of devices: a single validator for bank cards, traditional ticketing supports (Calypso, MIFARE, NFC, etc.), magnetic and QR-code tickets, with a built-in 4G Modem and Wi-Fi comms	●	●	
A Driver console for sale on board, with built-in printer, EMV, Calypso, MIFARE, NFC, QR-code, AVM functionality and a built-in 4G Modem	●	●	
The possibility to supply a turnkey solution	●		
The possibility to integrate the solution on a pre-existing tariff base	●		
A simple and clear contract, comprehensive of help desk and support		●	
An immediate activation		●	



THANKS



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