



# eBox RAPID – The new service for ePassport

- **Change Promoting Factors:**

- Significant boost to the number of passengers;
- Enhanced Service Levels at Airports;
- Competitiveness of national tourism;
- Reduction in Human Resources.
- Cost reduction

- **Electronic Passport**



## PEP - Portuguese Electronic Passport



## Features of the New Portuguese Electronic Passport

- Quality of the enrolment process for the citizen (without papers!!!)
- Very high secure level of the document
- Four levels of the service for the citizen
- Electronic Border Control System – RAPID





## eBox RAPIDE

**RAPID – Automatic Control and Identification of Passengers and Traveling Documents**

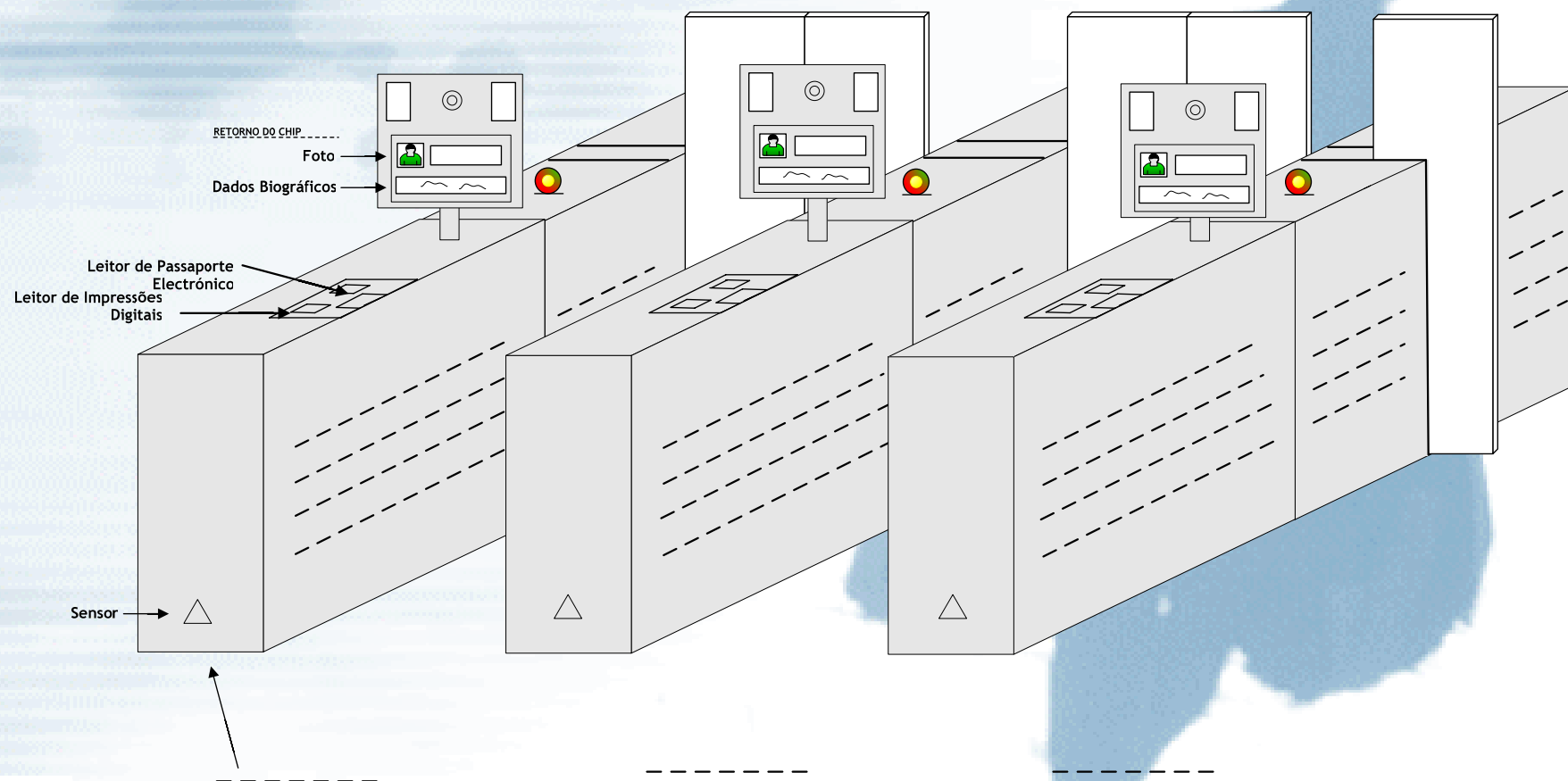
**New Service as a easy solution**

- A system that automatically checks the authenticity of documents and identifies passengers without human intervention;
- A simple and swift process for the passenger;





# eBox RAPID - concept









# eBox RAPID

## Requirements for the System

Module Based System, reduced area

High Security (DIN 18650)

Minimization of queuing time through better handling of passengers' flow

Self-Service = Positive Experience

Integrated into the Information Systems

### Targets:

**FAR < 1% @ FRR < 7%**

**Average time for border crossing per passenger < 20 seconds**

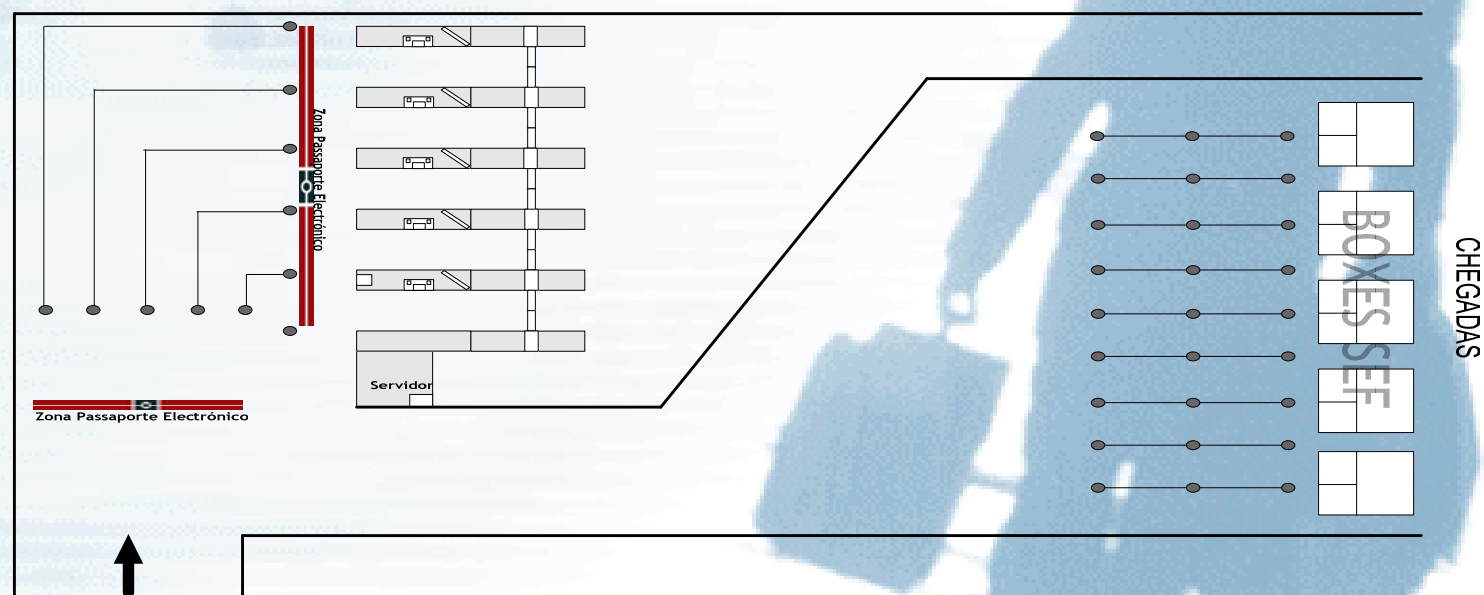
**Cost reduction**





# RAPID - Flow

## Model and framework of the flow system









# eBox RAPID

## University of Algarve Results of the System False Rejection Rate



	dias												
	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Aceitações correctas</b>	69%	64%	77%	88%	87%	95%	94%	90%	91%	92%	84%	96%	97%
<b>Falsas rejeições</b>	31%	36%	23%	12%	13%	5%	6%	10%	9%	8%	16%	4%	3%





# eBox RAPID

## Results of the System

University of Algarve

Results of the System

False Acceptance Rate



	<i>dias</i>												
	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Aceitações correctas</b>	0%	100%	100%	100%	100%	100%	100%	93%	100%	100%	100%	100%	100%
<b>Falsas rejeições</b>	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%





# eBox RAPID

## Results of the System

University of Algarve

Results of the System

Mean time to cross the border



<b>Semanas</b>			
	<b>1</b>	<b>2</b>	<b>3</b>
<b>mínimo</b>	9,0	4,0	4,0
<b>desvio padrão</b>	13,6	10,4	7,3
<b>média</b>	28,6	22,7	19,8
<b>máximo</b>	103,0	95,0	61,0





# Thanks for your attention!!!

[carlos.goncalves@sef.pt](mailto:carlos.goncalves@sef.pt)

