



European
Commission



Public Administrations Interoperability

Helping citizens access public services at regional and national levels by establishing interoperability for public administration-issued citizen credentials.

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Country



Regional Governments



Professional College



Public Research Center



The pilot unites 4 Spanish Public Law entities, 1 Research Centre and 3 IT providers:

- **AOC** – Government of **Catalonia** (8 M inhabitants)
 - **CARM** - Government of **Region of Murcia** (1,6 M Inhabitants)
 - **LA RIOJA** - Government of **La Rioja** (+300K inhabitants)
 - **ICOMEM** - College of **Medical Doctors**, Community of **Madrid** (48K members)
 - **I2CAT FOUNDATION** - Member of the Catalan **Research and Innovation Centers**
-
- **VALIDATED ID SL** (**VIDchain**, **VIDwallet**) + **IVIS E.M.V. SL** (**Verify**) + **EBSI**



IT Providers



Infraestructure



Citizen Digital Offices,
ready for our way of life?



Solve interoperability!

We are citizens on the move,
and we need access to local
and regional public services
there where we live,
there where we work,
and there where we travel
for work or for pleasure.



+21M
Active workers in Spain

+630k
Change of province
daily to work

12M
Workers on the move

Considerations and challenges for real interoperability

From the point of view of administrative procedures that need credentials and attestations exchange.

01

Our (17) Regional Governments and (+8k) City Councils already Issue multiple attestations of citizens' attributes.

Credentials demanded by the public sector from the public sector

- Proof of Residence
- Large Family for transport, equipment, Youth card, Student ID, ...
- Social Security and Health
- Retiree card
- Library card, Municipal sports center
- Recycling point card
- Parking cards
- Licenses
- Taxes and Payments certificates

02

Administrative procedures demand verifiable attestations endorsed by other competent issuers, including private ones.

Credentials demanded by the public sector from the private sector

- Ownership Bank account
- Legal representation

03

Formats, mainly PDFs. Even if signed, not ready for automation, request expensive and slow human verification and interpretation.

Credentials demanded by the private sector from the public sector

- Proof of Residence
- Disability Card
- Large family, Single-parent family
- Social bonds, Social Vulnerability Report, Low-income level
- Official Diplomas
- Active job seeker

...



Public Administrations Interoperability

Based on EBSI Trust Model and Trusted Registries

Common schemes:

Student Card

Teacher Card

Foreign Language Lv

Disability Card

Proof of Residence

Licence to work

Researcher WorkID

Trusted Issuers:

Regional Govs.

City Councils

Professional Colleges

Other Org.

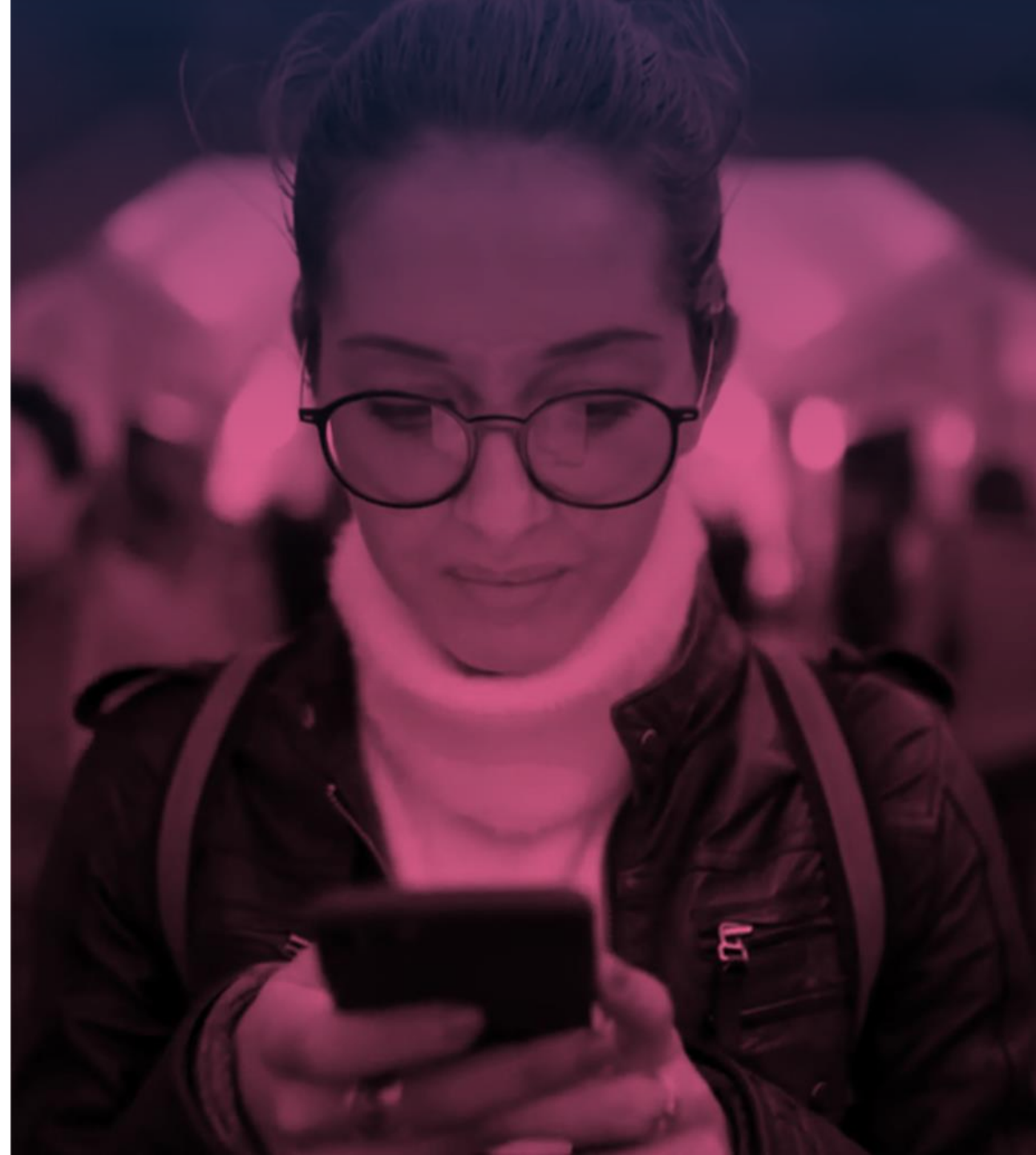


Public Administrations Interoperability

This is **the story of Carmen**, a citizen on the move.

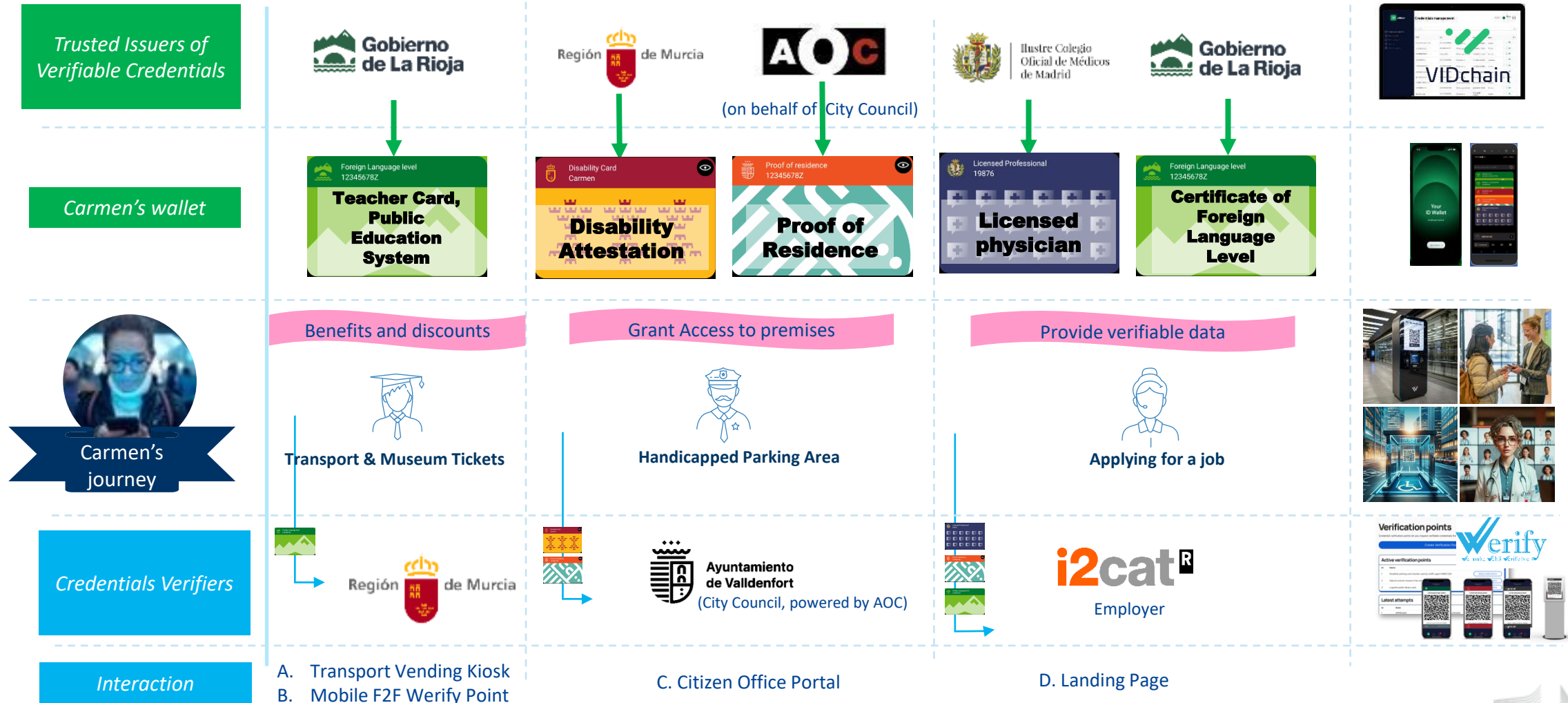
She can be living in one city most of the time but be traveling or teleworking from a different city or even a different Region.

And Carmen needs to access different public services while she is on the move...



Global Map - Public Administrations Interoperability – EBSI EA Project

Building an **ECOSYSTEM** based in Interoperability



Public Administrations Interoperability

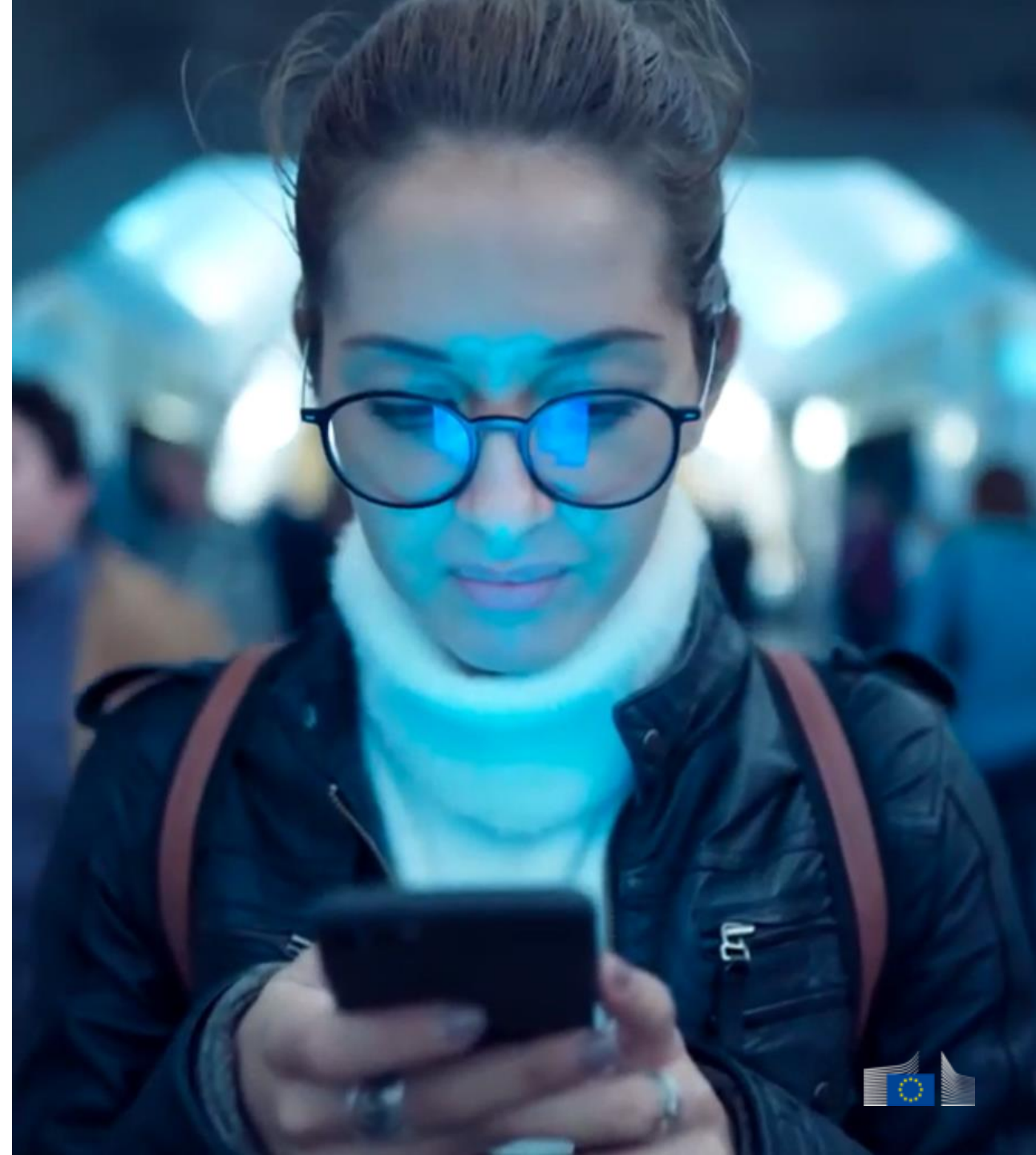
CONCLUSIONS

1
Carmen holds self managed verifiable attestations of her own attributes.

2
Carmen becomes an active element of interoperability between Public Administrations

3
Public Admins can recognize, verify and trust on those credentials

4
Public Admins can automate requests and integration of data for their procedures.



**Public
Administrations
Interoperability**

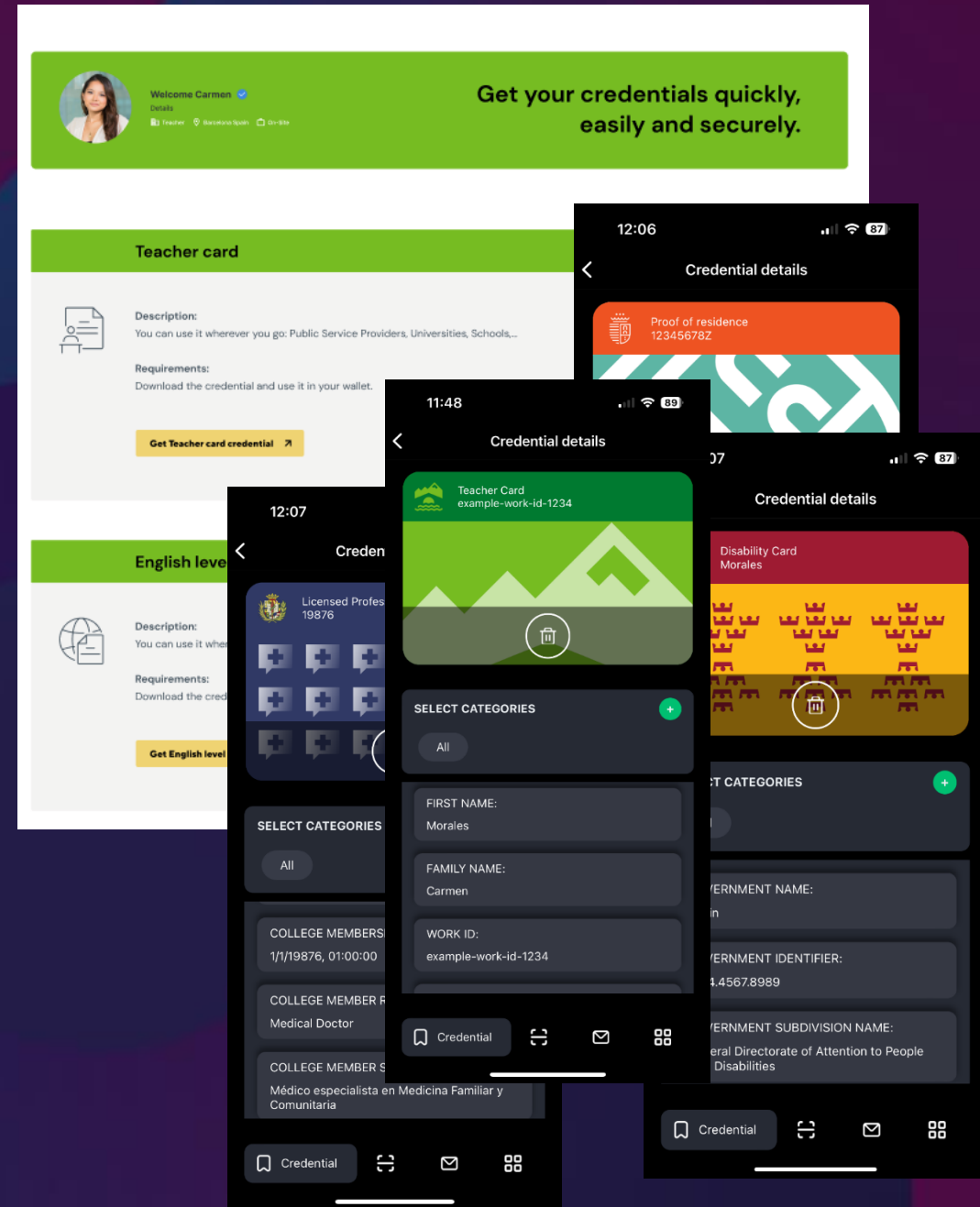


01

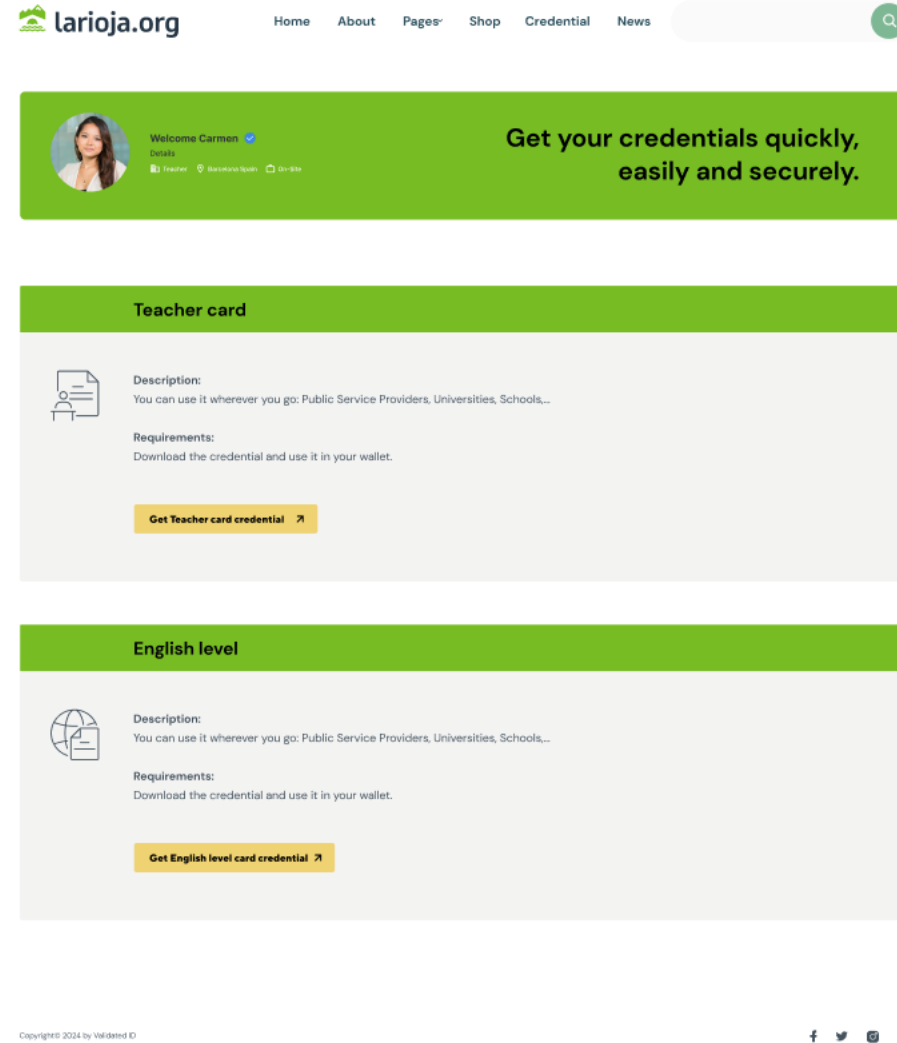
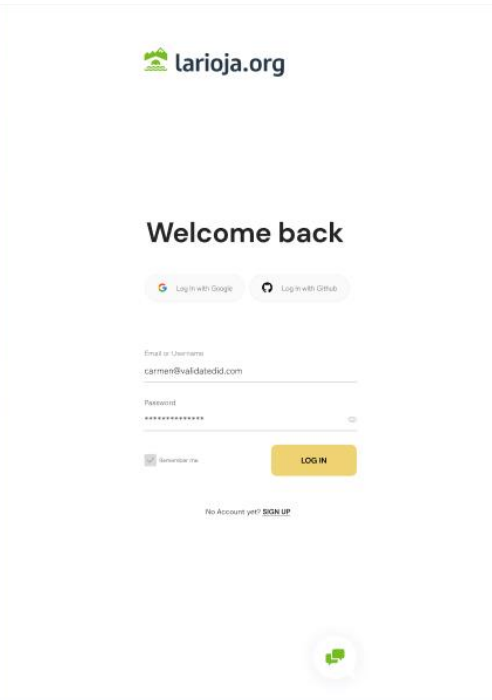
Issuance and storage of Citizen Credentials

Public Administrations Interoperability

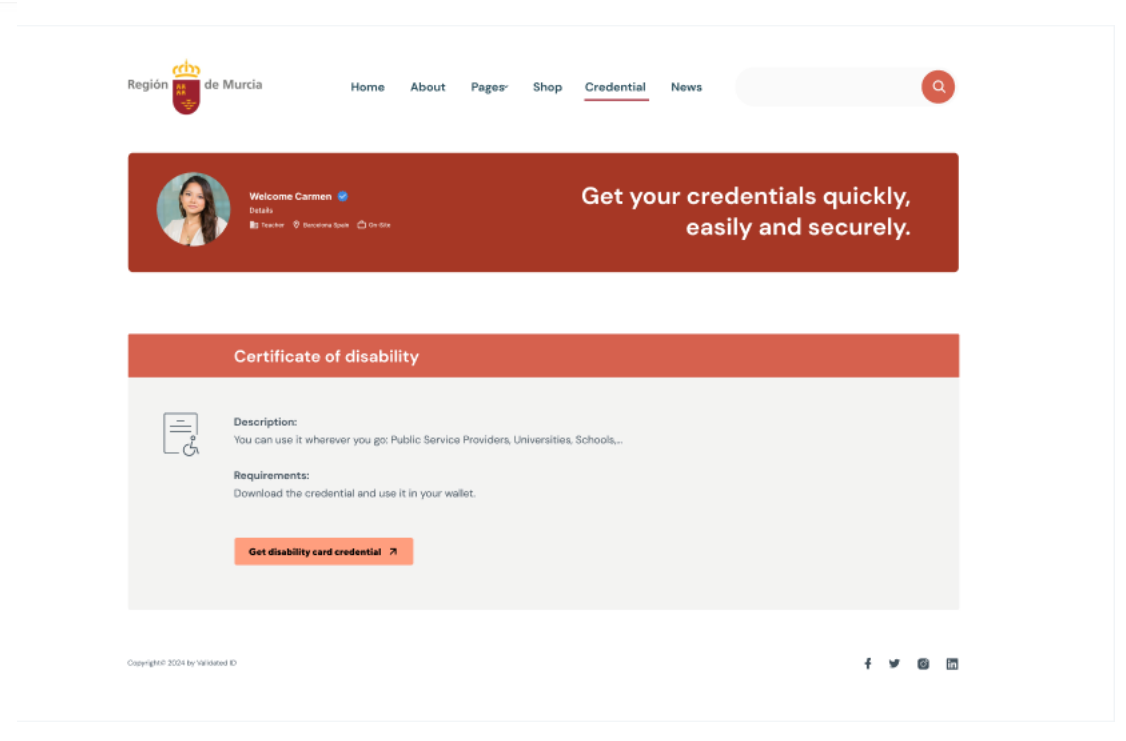
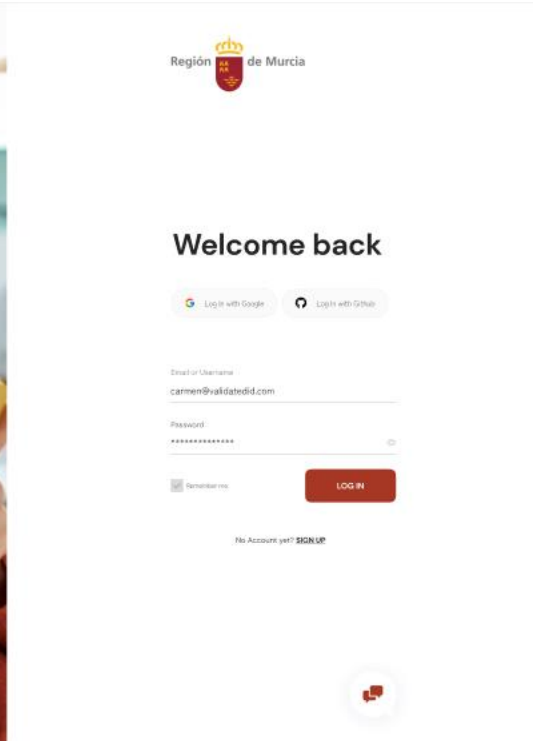
Helping citizens access public services at regional and national levels by establishing interoperability for public administration-issued citizen credentials.



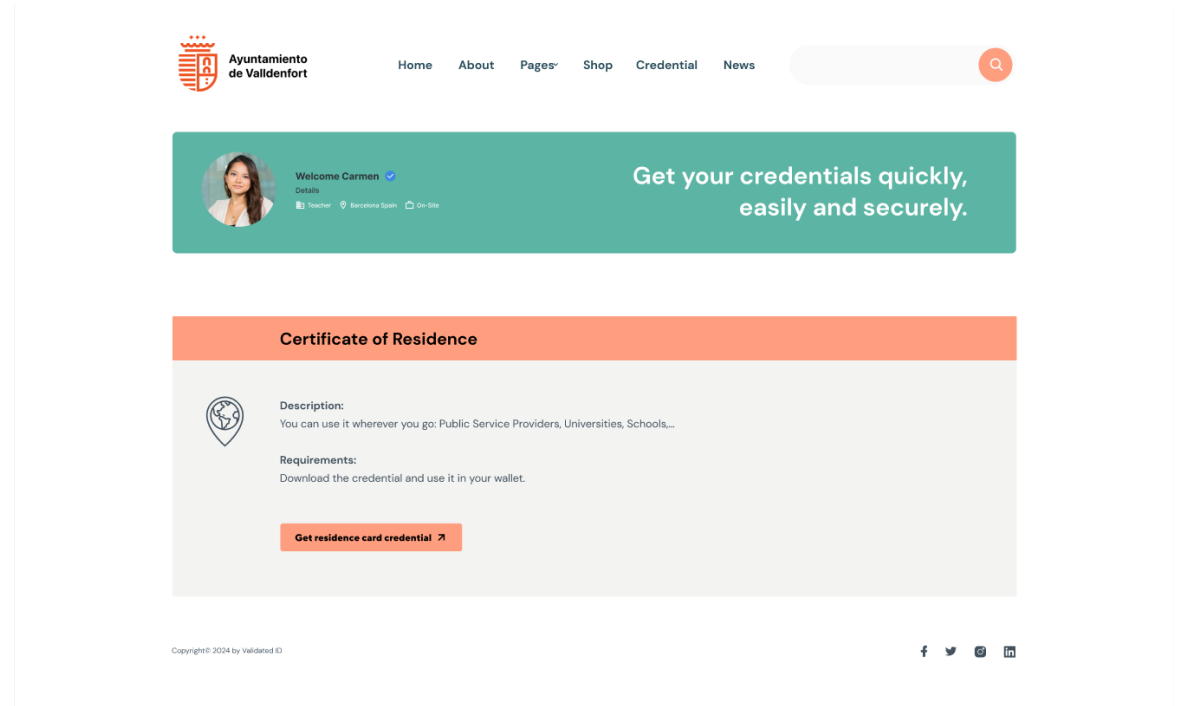
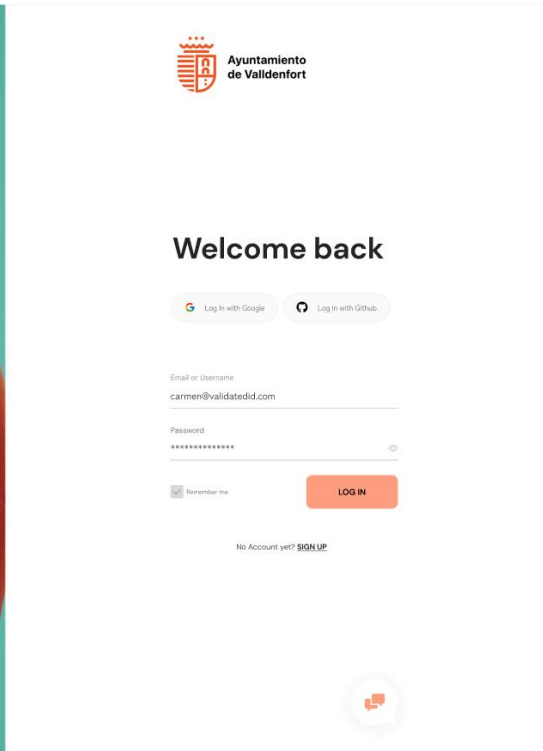
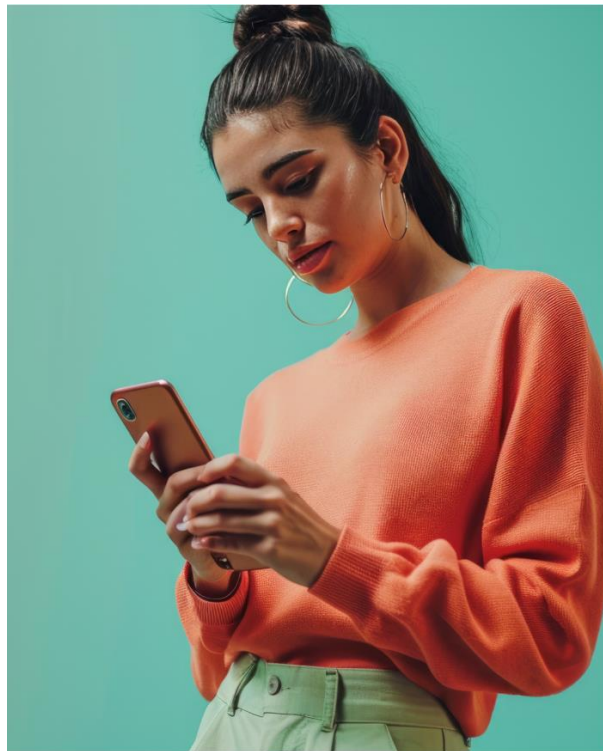
1. Carmen accesses to the portal of La Rioja to claim Teacher and Language credential



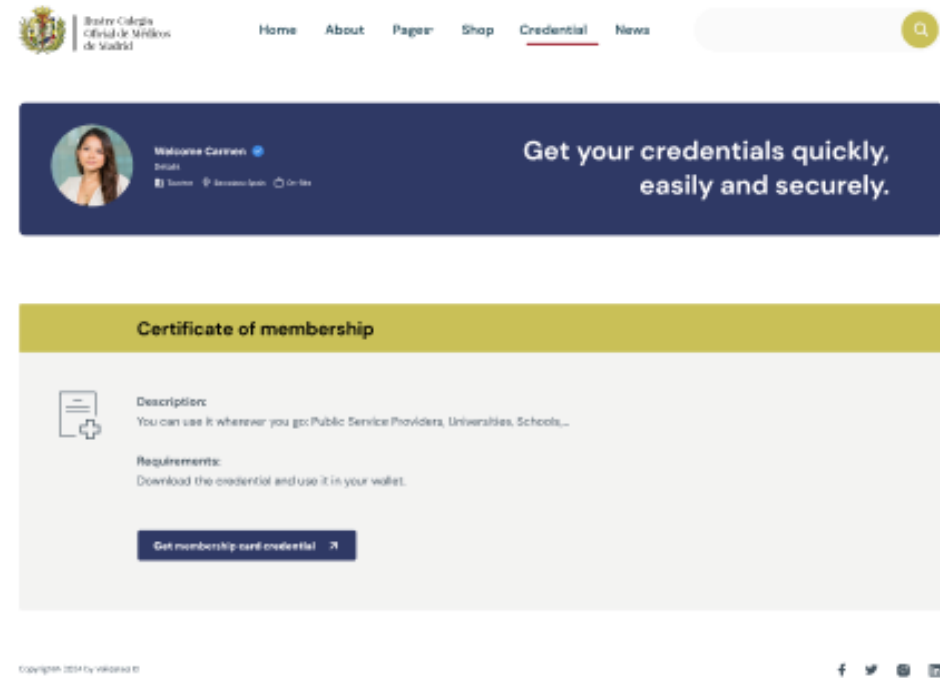
2. Carmen accesses to the portal of Murcia to claim Disability credential



3. Carmen accesses to the portal of Valldenfort (powered by AOC) to get proof or residence Credential



4. Carmen accesses to the portal of ICOMEM to get doctor license Credential

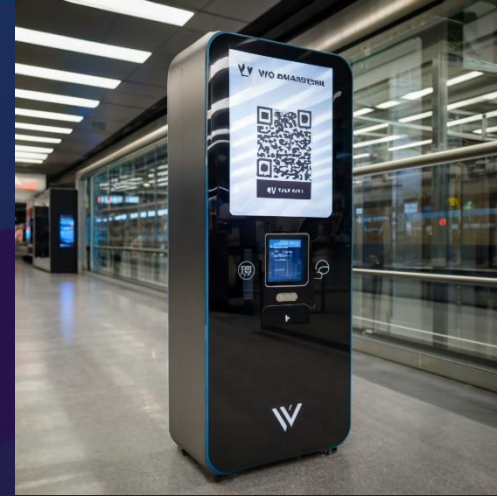


02

Presentation of citizen credentials to access public services.

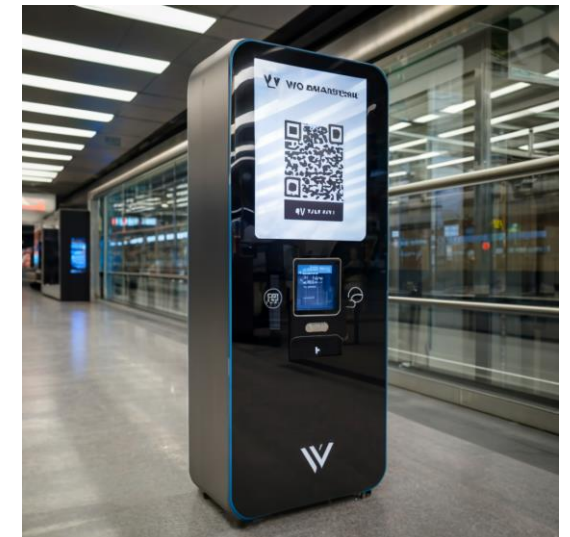
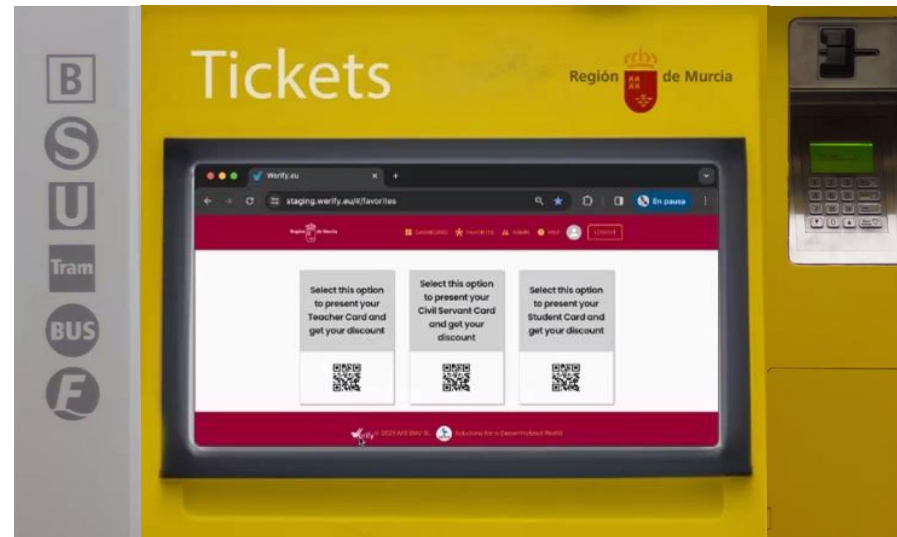
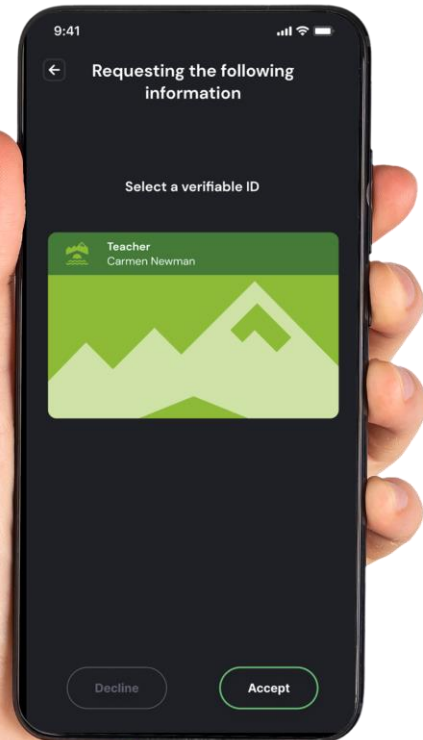
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Case A: kiosk mode

Carmen, as she is a Public-Education Teacher, asks for discounts benefits from the Public Network of transport at the city she is visiting for a congress.



The transport vending machine of Murcia offers several discounts, one of them allows Carmen to present her Teacher Card Issued by La Rioja to get a discount on transport ticket.



Case B: Verifier App

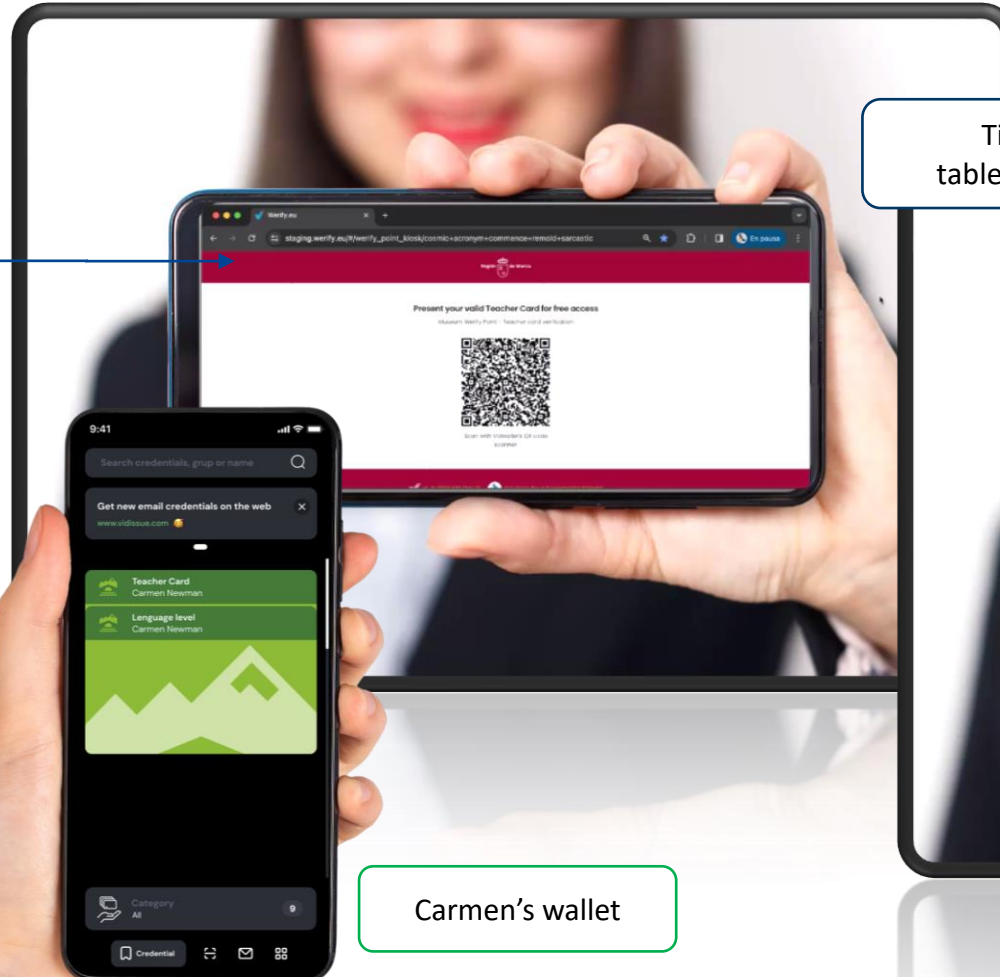
Carmen wants to visit a museum while visiting another city and asks for free-entrance for being a Public-Education Teacher.



The ticket officer of the museum just need to verify Carmen’s Teacher Card from a trusted issuer. The ticket officer has access to a mobile app to request that VC from Carmen, and if valid (double green check) she will let her pass for free.

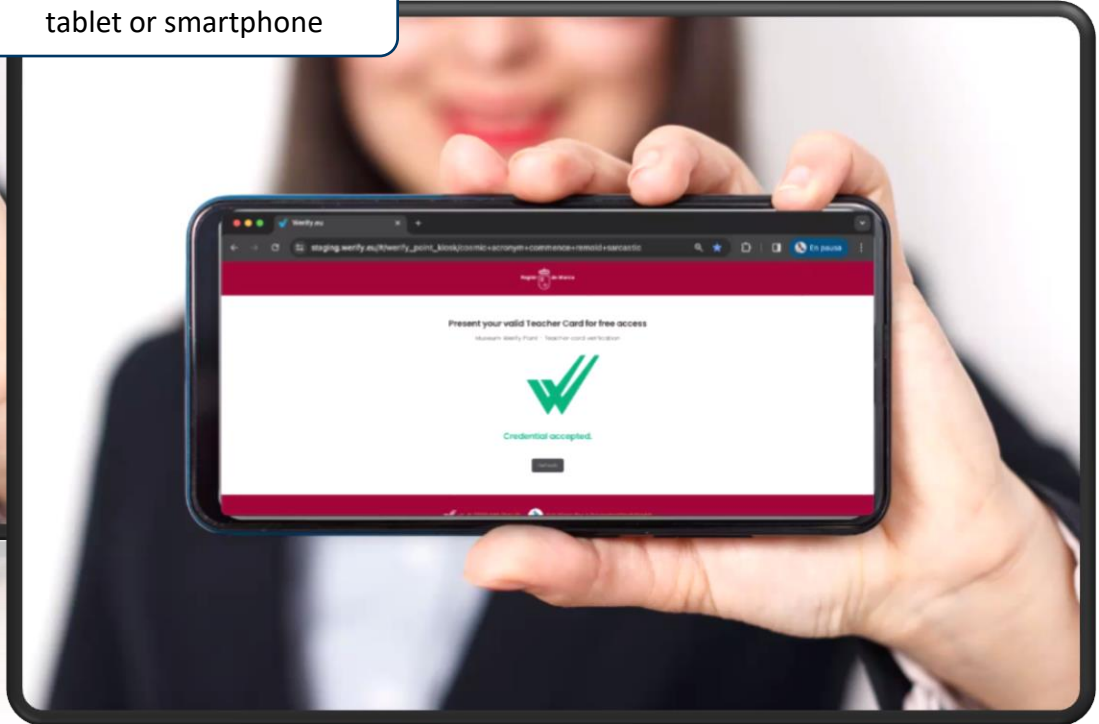


This QR opens the Verify Point rule in any browser



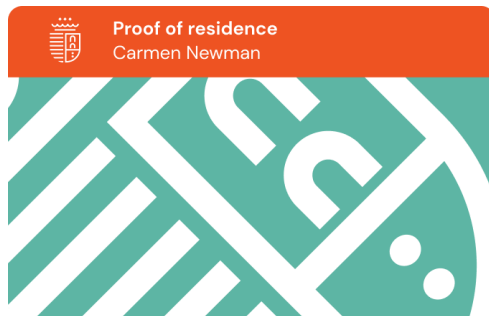
Carmen's wallet

Ticket officer's tablet or smartphone



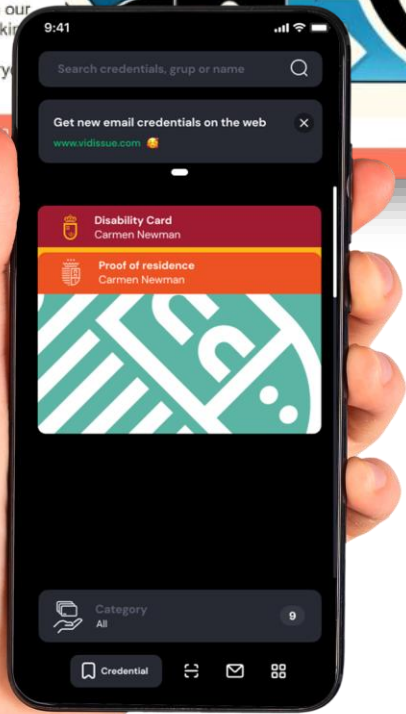
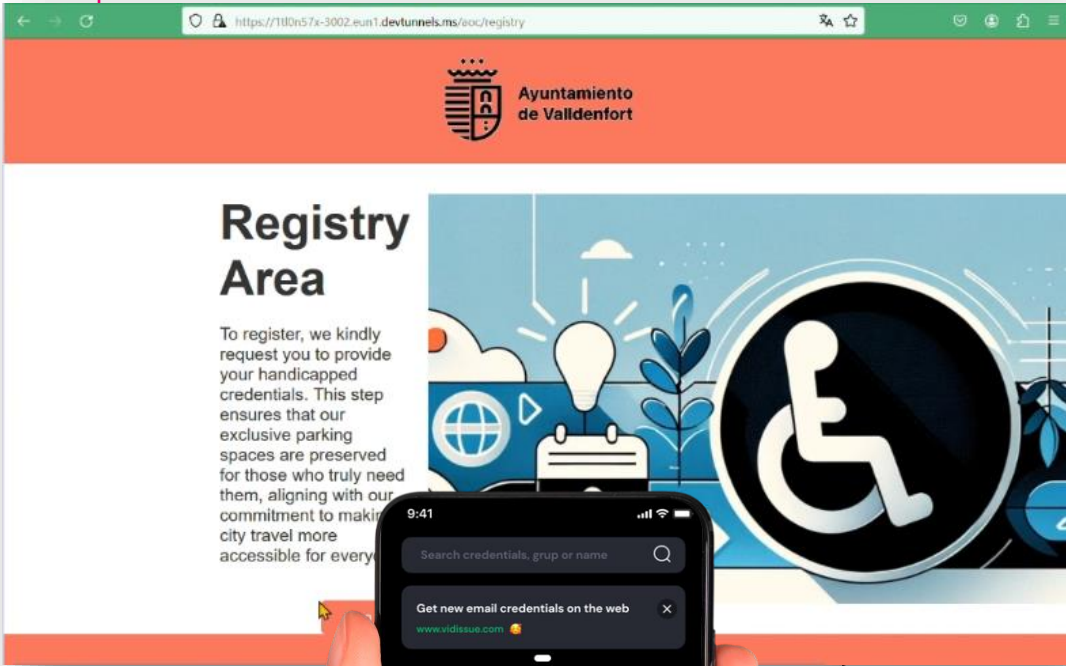
Case C: Citizen Service Portal

Carmen has a disability, so she will request access to park in a Handicapped Drivers Reserved Area at the place she works, even if she is living in a different city.

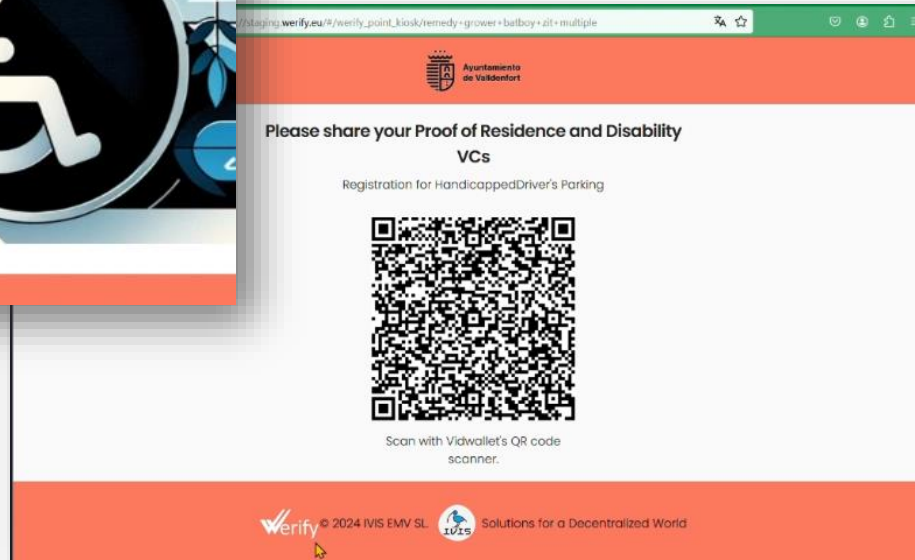


+





Carmen will access to the Citizen Office Portal of the city council, to register as Handicapped Driver by sharing her Disability Card, attested by CAR Murcia, and a Proof of Residence Card, issued by AOC on behalf of Carmen's residence city.



**Welcome,
Carmen!**

You now have access to the townhall services of the city. This includes registration to access handicapped drivers reserved parking areas. Below, you'll find a QR code to present your Verifiable Credentials (VCs) for easy and secure entry.



Case D: Job Posting

Carmen decides to apply for a medical researcher position at a Research Centre.

The role offer outlines three requirements: a Licensed Medical Doctor Professional credential, a Foreign Language Level attestation and Proof of Residence.



i2cat
The Internet
Research Center
Powering your
Innovation

Start Your Professional Journey Today!

Unlock your potential by signing up on the Job Portal today with your verifiable credentials, and embark on the path to exciting professional opportunities!

Sign Up



The role offer outlines three requirements: a Licensed Medical Doctor Professional credential, a Foreign Language Level attestation and Proof of Residence.

i2cat

Job posting – Please share the requested VC to start the process

Request and verify: MedicaCredential, ForeignLanguageLevel and ProofOfResidence

Scan with Vidwallet's QR code scanner.

Verity © 2023 IVIS FMV SL Solutions for a Decentralized World

Those candidates without desired attestations will not be able to post, so the I2Cat can concentrate on those that fulfil the requisites.

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Innovation

Welcome

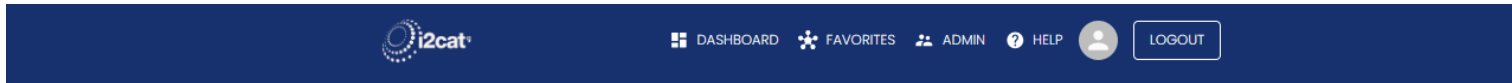
Thank you for your registration! We confirm that we have received and validated the shared data, and therefore we register you in the job selection process.

We will contact you soon to continue with the process!

City Services Access © 2023



Backend integration



id	Verify Point	Rule	State	State Notes	Scanning
1477	363 - Job posting - Please share the requested VC to start the process	367 - Request and verify: MedicoCredential, ForeignLanguageLevel and ProofOfResidence	Approved		2/4/2024, 9:35:06

type: ProofOfResidence

credentialSubject/FamilyName: Morales

credentialSubject/AddressLocality: Ajuntament de Valldentort

credentialSubject/PersonalIdentifier: 12345678Z

id: urn:uuid:0c17f6ee-d48f-44ba-9178-e9f8dd4e9164

issuer: [{"id": "did:key:z2dmzD8lcgPx8Vki7JbuuMmFyrWpGyoytykUZ3eyqhtl]9KbpeYpPPAQeQ5KbP7pHyGnmWJwmjVAJvDeGeypPbl.qpsew9pVG3qBtM3PhkYArfnXtBippvaHKjPRb9DwkcBPMhWX7RbMbkGHkNgRkaCw79Rm6zbifisdQs3NvEfnga5McQU", "name": "EarlyAdopters"}]

type: LicensedProfessional

credentialSubject/CollegeMembershipID: 19876

credentialSubject/OrganizationName: ICOMEM - Ilustre Colegio Oficial de Médicos de Madrid

id: urn:uuid:7952eb4a-cbda-41f9-9998-78e4a3452a98

issuer: [{"id": "did:key:z2dmzD8lcgPx8Vki7JbuuMmFyrWpGyoytykUZ3eyqhtl]9KbpeYpPPAQeQ5KbP7pHyGnmWJwmjVAJvDeGeypPbl.qpsew9pVG3qBtM3PhkYArfnXtBippvaHKjPRb9DwkcBPMhWX7RbMbkGHkNgRkaCw79Rm6zbifisdQs3NvEfnga5McQU", "name": "EarlyAdopters"}]

type: ForeignLanguageLvCard

credentialSubject/ForeignLanguage: English

credentialSubject/ForeignLanguageLevel: C1

credentialSubject/GovernmentIdentifier: 1234.4567.8989

id: urn:uid:e0b1d800-83be-4876-98e6-f93362507bdc

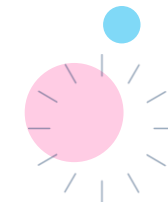
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For all the cases, the backend of the system will register the desired information from the presented VC.

That information can be sent to the end client business application through callback functionalities.



The EU SSI Trust Model supported by EBSI will allow to reimagine new models of Citizen Service Offices, by facilitating in practice Mutual Trust agreement among Regional and Local Governments to exchange and recognize different types of Citizen Digital Credentials



Ready to get started?

Reach out to us to learn more and apply this citizen benefits in your own use case!

Send an e-mail to

josefruiz@werify.eu

ivan@validatedid.com

