

INTRAS

Applied Research, Innovation and Knowledge Unit

FUNDACIÓN intras

+70
National and European projects

5.000
Users of our technology-based interventions

+4
TRL 8 prototypes in neuropsychological intervention

3
Technologies on the market

1
Spin-Off

Applied Research and Innovation

Knowledge Management

Direct Care and Therapeutic Intervention Centres



Collaborative Networks



EIT Health Spain

European Network of Living Labs

RSCN: Active and Healthy Living Reference Sites

European Platform for Rehabilitation

MinD - Designing for People with Dementia

Plataforma Tecnológica Española de Tecnologías para la Salud y la Vida Activa e Independiente

International Society for Professional Innovation Management

Addressing unwanted loneliness

Federación de Asociaciones de Neuropsicología Españolas

Acknowledgements



2018
- **Social Innovation Award – “la Caixa”**
  “The World of Emotions”
- **Best Living Lab Project**
  ENOLL 17/18

2019
- **Best Communication Award**
- **CO-VAL Study – Good Practice**
  1 of 3 LL selected: MINDLab; Guadalinfo; Library LL (coord. ENOLL President)

2020
- **Life Habitat Award 2020**
  Gradior – “City of Memory”
- **Reference site EIP on AHA *****
  Integr@tención Ecosystem (coordinated by INTRAS)

2021
- **Research Award**
  Economic and Social Council
  University of Valladolid

2022
- **Reference site EIP on AHA ******
  Integr@tención Ecosystem (coordinated by INTRAS)
- **Best European Cooperation Project (MOAI Labs)**
  Ministry of Economy and Finance

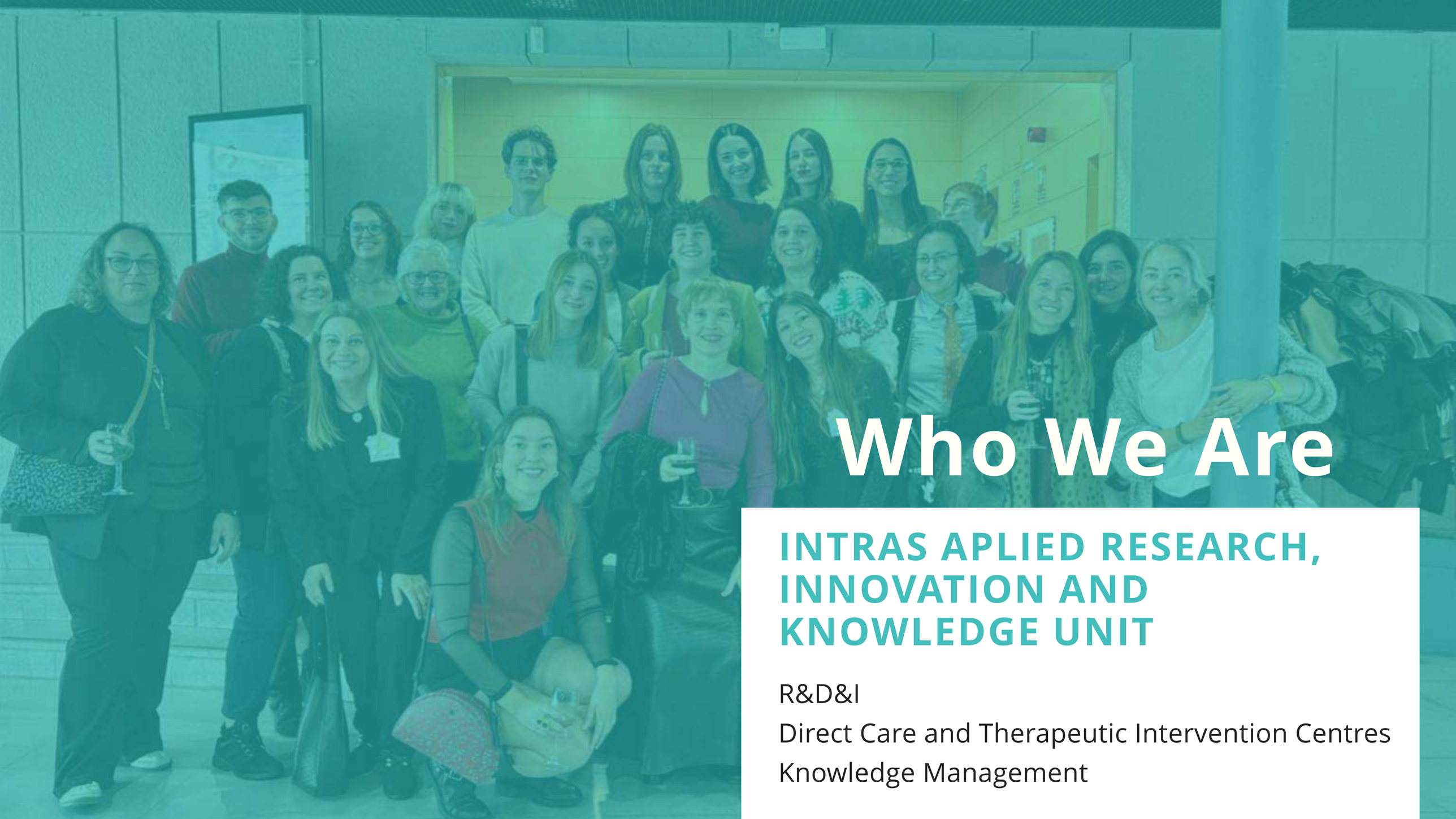
2023
- **Best European Cooperation Project (INTEGR@TENCIÓ)**
  Ministry of Economy and Finance

2024
- **REGIOSTARS Finalist**
  European Commission

2025
- **“Demographic Challenge” Award (HENKO NET)**
  Domusvi
- **Best Poster Award (VIVEMAIS)**
  7th International Silver Economy Congress







Who We Are

INTRAS APLIED RESEARCH, INNOVATION AND KNOWLEDGE UNIT

R&D&I

Direct Care and Therapeutic Intervention Centres

Knowledge Management

Main Research Topics

1. Cognitive rehabilitation and stimulation
2. Early detection of cognitive decline
3. Early intervention in mental health
4. Palliative care
5. Assistive technologies for well-being and independent living
6. Loneliness, inclusion and social cohesion



1.Cognitive rehabilitation and stimulation

EOSC RAISE Suite

Funded by the European Union

*A platform for managing, sharing and processing **FAIR research data** in **digital health** environments*

Serenhe

Rehabilitación integral y accesible en el hogar

Servicios Sociales de Castilla y León | Junta de Castilla y León

*Comprehensive **Cognitive Intervention** study (Cognitive and Psycho-Affective Domains) in older adults with and without MCI*

ehcoBUTLER

Programa H2020 de la Unión Europea: H2020-EU.3.1

*Global **Ecosystem** to support independent and healthy living for **older people with MCI***

VITALISE

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 101007990.

*Harmonisation of procedures across dedicated **health and Living Labs**. Specific JRA on digital **cognitive rehabilitation** in older people with **MCI or early-stage dementia***

HOSMARTAI

AI for the smart hospital of the future

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101016834

***Development of an AI-enabled smart hospital Integrated cognitive** intervention delivered through a **virtual assistant and a social robot** in older adults with and without MCI*

2. Early Detection of Cognitive Decline and Dementia

identia

Screening system *for identifying preclinical stages of dementia combining* ***VR*** *and* ***AI***

cognitia

Virtual assistant *for cognitive impairment screening based on natural language*

COMFORTage

Prediction, monitoring and personalized recommendations for prevention and relief of dementia and frailty

Funded by the European Union

Innovate UK

Prediction and monitoring of ***dementia and frailty***

SCREENIA

Early detection of preclinical stages of dementia through the combination of ***digital cognitive markers and voice-based digital biomarkers***

3. EARLY INTERVENTION IN MENTAL HEALTH

SMILE

Funded by the European Union

Child and adolescent mental health

*Mental health of **young people aged 10 to 24** (gamification and AI)*
Gamified platform providing self-assessment, self-monitoring, and learning resources to prevent psychological distress

moodmon eCRF

Funded by the European Union

Adult mental health

*AI-based patient monitoring system to improve the treatment of **chronic affective disorders** (bipolar disorder and depression)*

AI4HOPE

Funded by the European Union

*Promoting health through digital tools and AI to support and enhance care for people living with **dementia**:*

- *Integrated **palliative care***
- *Value-based co-design framework*



*Promoting **integrated (social and healthcare) care** for people receiving **palliative care** through innovative solutions*



4. PALLIATIVE CARE

HEALTHCHAIN

Co-funded by the European Union

iMOTION

***Virtual assistant** with voice-based emotion recognition to personalise **home care for palliative patients** (especially in **rural areas**)*

5. ASSISTIVE TECHNOLOGIES FOR WELLBEING AND AUTONOMY

Digital Health in the Circular Economy

Funded by the European Union

*Embeds **circular economy** principles into healthcare by co-creating and validating circular business models for medical devices in real-life Living Lab environments, driving behavioural change and enabling scalable and sustainable systemic transformation*

Interreg España – Portugal

Cofinanciado por la Unión Europea
Cofinanciado pela União Europeia

VIVEMAIS

*Facilitating access to **assistive technologies** (ATs), ensuring their quality and safety, and developing a person-centred **design methodology** to enhance use, adoption, and satisfaction with support technologies*

EIAROB

Servicios Sociales de Castilla y León

Junta de Castilla y León

*Support for long-term **care at home** through the use of **social robots***

Interreg Sudoe

EUROPEAN UNION

MOAILABS

European Regional Development Fund

Innovative transnational *laboratory dedicated to research and open innovation in the field of* ***social isolation and loneliness*** *among older people*

MIND INCLUSION 3.0

Co-funded by the European Union

Platform and app *that supports people with intellectual disabilities and/or cognitive impairment to find and review public places according to their level of* ***inclusion and accessibility***

CUENTA CONMIGO

Funded by the Regional Government of Castilla y León through income tax allocation

Servicios Sociales de Castilla y León

Junta de Castilla y León

Prevention and intervention for ***unwanted loneliness*** *among older people in rural areas*

6. LONELINESS, SOCIAL INCLUSION AND SOCIAL COHESION

I+D+i



Living lab

Our Living Lab

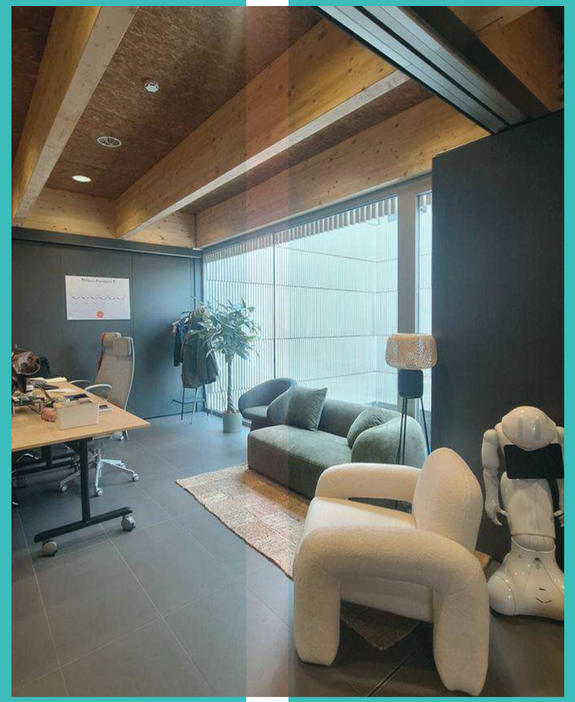
m:nd LAB

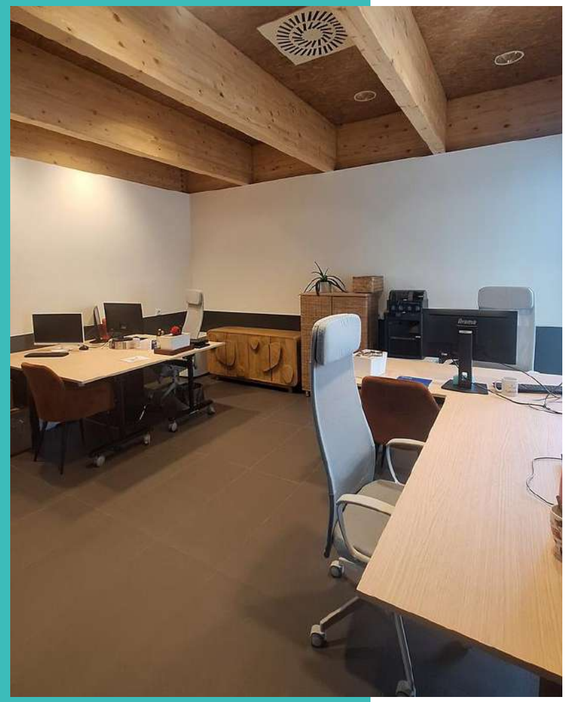
A Living Lab is a user-centred methodological approach in which citizens, designers, artists, technologists, companies, and public-sector organisations collaborate to co-create solutions addressing real-life challenges.

"An organized approach to innovation that involves real-life experimentation and the active involvement of users through various methods, engaging multiple stakeholders."
— Schuurman, 2016

European Network of Living Labs







Spaces

Xperimental Lab

Dream Lab

Eureka Lab



A Proprietary methodology *for implementing assistive technologies with individuals in their homes.*

- *Continuously updated technology catalogue.*
- *Coordination of direct care with a technology-based care model*

ApoyaTEC Catalogue

- *Support with Activities of Daily Living (ADLs)*
- *Health and wellbeing*
- *Telecare and GPS*
- *Environmental control*
- *Cognitive stimulation*
- *Multisensory stimulation*
- *Social participation and leisure*
- *Cognitive accessibility*
- *Physical accessibility*
- *Augmentative communication*



GRADIOR
suite

WHAT CAN I DO WITH GRADIOR SUITE?

Gradior Suite enables intervention through a holistic approach that considers the different dimensions of the person.

- Multidimensional intervention:
- Cognitive stimulation and rehabilitation
- Sensory stimulation
- Individualized intervention
- Efficient monitoring
- Home-based therapies

Gradior Cognitive Stimulation

Evaluation, stimulation, and rehabilitation system for a comprehensive approach to cognitive function.

Gradior Multisensory

Multisensory stimulation and emotional regulation system in immersive environments.

Gradior Activities of Daily Living

Immersive system for care support and ecological therapeutic stimulation in community settings.



Innovations for Independent Living



ANDIN

Innovative socio-health solution (Smart Walker) to support independent living.



UP cama

Technological support system for bed transfer activities (lying down and getting out of bed).



INOTEC

Innovative socio-health solution (Assistive Toilet with technical aids) to support independent living.

Direct Care and Therapeutic Intervention Centres

CLÍNICA DE
memoria
CENTRO SOCIO-SANITARIO DE LA FUNDACIÓN INTRAS

Promoting personal independence for patients and their families through comprehensive interventions:

- Individual
- Group

Key services:

- Neuropsychology
- Speech and language therapy
- Healthy ageing programmes
- "Cuídate y Café" wellbeing programme

Support and training services:

- Psychotherapy
- Training courses for health and social care professionals
- Memory workshops

Direct Care and Therapeutic Intervention Centres

CLÍNICA DE PSICOTERAPIA

Adapting therapy to each person and their individual goals through integrative interventions based on:

- Contextual therapies
- Cognitive behavioural techniques
- Systemic approach
- Neurotherapy
- Other complementary therapeutic models

Target groups:

- **Adults**: anxiety, depression, stress, grief, low self-esteem, and phobias.
- **Children and adolescents**: behavioural and emotional difficulties, anxiety, ADHD, bullying, and eating-related difficulties.







Direct Care and Therapeutic Intervention Centres

ibentia

INNOVATION AND CARE CENTRE FOR OLDER ADULTS WITH COGNITIVE IMPAIRMENT AND DEMENTIA

Team

INTRAS APPLIED RESEARCH,
INNOVATION AND KNOWLEDGE UNIT





RAQUEL LOSADA

Director of the Applied Research and Knowledge Management Unit



MARTA GARCÍA

Head of the R&D&I Unit



TERESA CID

Head of the Technological Developments Service



ROSA ALMEIDA

Head of Horizon Europe Projects and Consortia



Mª JOSÉ HERNÁNDEZ

Head of Business Development and Near-to-Market Projects



IRENE MEDINA

Project and Knowledge Manager



SOFÍA BALLESTEROS

Project Manager



Mª SOLEDAD ROJAS

Project Manager



ELISA SÁEZ

Project Manager



PATRICIA AMADO

Project Manager



ESTHER PARRA

Project Manager



ANA VIZCAÍNO

Marketing and Communication



SUSANA SAN MARTÍN

Systems and Software Developer



ALEJANDRO MAESO CID

Junior Software Developer



MIGUEL GARCÍA

GRADIOR VR Software Development and Maintenance



YOLANDA BUENO AGUADO

Head of Memory Clinic



ANA HERRERO BLANCO

Coordinator of Memory Clinic



ESTIBALIZ GONZÁLEZ

Coordinator of Psychotherapy Clinic



LAURA FERNÁNDEZ

General Health Psychologist. Child and Adolescent Specialist



MARTA CAMPAÑA

General Health Psychologist



AARON GARCÍA CABALLERO

Speech and Language Therapist specialising in neurology



MARÍA SAIZ CERVERA

Psychogerontologist. General Health Psychologist



RUTH ANTOLÍN PÉREZ

General Health Psychologist



LAURA GONZÁLEZ

General Health Psychologist



ANDREA SAN JOSÉ PRIETO

General Health Psychologist



ISABEL OSORIO OSORIO

Geriatric Care Assistant



SANDRA GARCÍA MARTÍN

Head of Day Care Centre Identia



MAR BOLADO HERRERO

Geriatric Care Assistant

FOLLOW US AND STAY UP TO DATE!

Our social media channels

