

INCLUSIVE PROGRAM OF ATTENTION TO STUDENTS WITH DISABILITIES AND STUDENTS SPECIFIC NEED OF EDUCATIONAL SUPPORT (SNES) AT THE UNIVERSIDAD POLITÉCNICA DE MADRID.

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Webinar con INWES (International Network of Women in Engineering and Science) – 27/04/2022



POLITÉCNICA



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Introduction

- Disabled students now make up a significant part of the student population

Convention on the Rights of Persons with Disabilities (CRPD) recognize

- “*the right of persons with disabilities to education*” (art. 24)
- “States Parties shall ensure that persons with disabilities are able to **access general** tertiary education, vocational training, adult education and lifelong learning without discrimination and on an equal basis with others (art. 24.5)”
- **Universities should be inclusive and incorporate the diversity** in all activities as a part of its quality



¡Achieving a quality University education only will be possible **if we are all together!**



United Nations

The University



Universidad Politécnica de Madrid

CENTROS (CAMPUS CIUDAD UNIVERSITARIA)

ETS de Ingeniería Aeronáutica y del Espacio

ETS de Ingenieros Navales

ETS de Arquitectura

ETS de Edificación

ETS de Ingenieros de Caminos, Canales y Puertos

ETS de Ingeniería Agronómica, Alimentaria y de Biosistemas

ETS de Ingeniería de Montes, Forestal y del Medio Natural

ETS de Ingenieros de Telecomunicación

Facultad de Ciencias de la Actividad Física y del Deporte (INEF)

CENTROS (CAMPUS MONTEGANCEDO)

ETS de Ingenieros Informáticos

CENTROS (CAMPUS MADRID CIUDAD)

ETS de Ingenieros Industriales

ETS de Ingenieros de Minas y Energía

ETS de Ingeniería y Diseño Industrial

ETS de Ingeniería Civil

CENTROS (CAMPUS SUR)

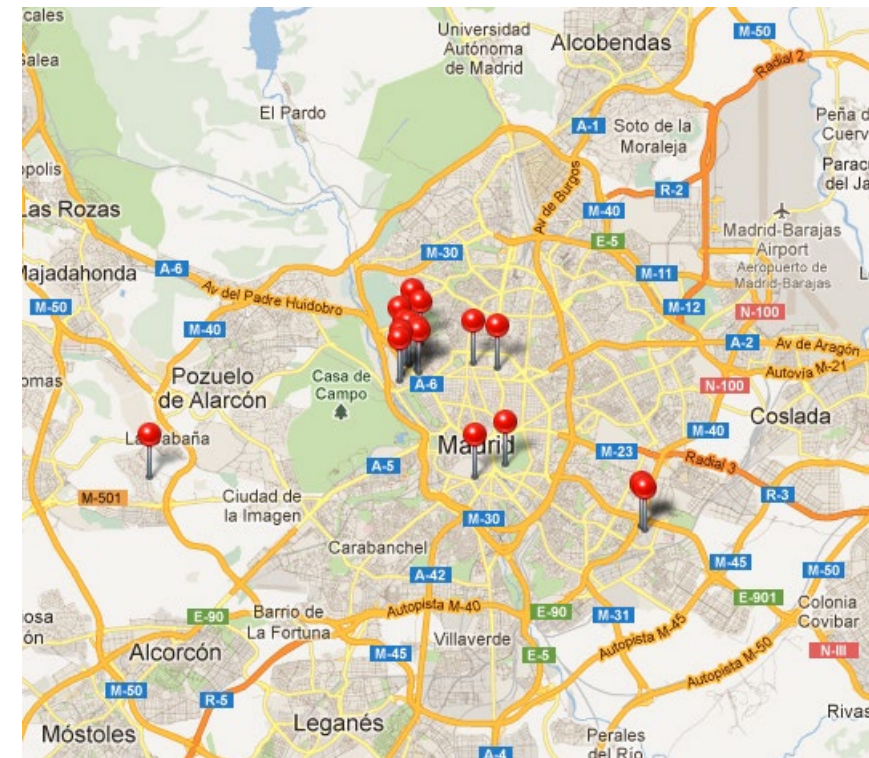
ETS de Ingeniería y Sistemas de Telecomunicación

ETS de Ingeniería de Sistemas Informáticos

ETS de Ingenieros en Topografía, Geodesia y Cartografía

Centro Superior de Diseño de Moda de Madrid

18 Centres in 4 Campus



History and Organization Chart

D 74/2010, Art 178
Statutes of UPM

VICE-RECTORATE FOR STUDENTS

THE UNIT FOR ATTENTION TO DISABILITY (UAD)



Responsible of the Unit

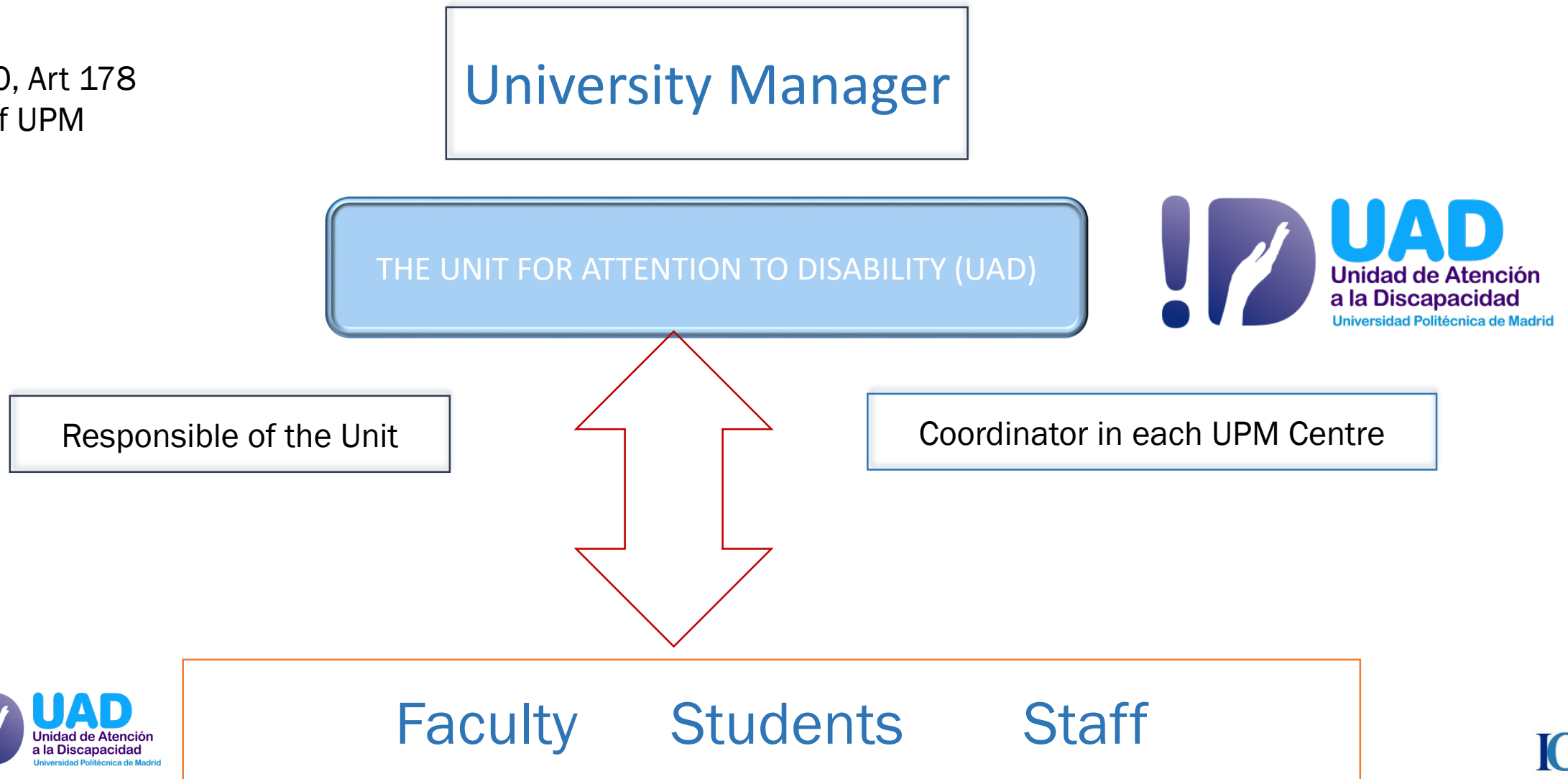
Students

Coordinator in each UPM Centre



History and Organization Chart

D 74/2010, Art 178
Statutes of UPM



Unit for Attention to Diversity Program

This program offers attention to students with a **recognized disability, health conditions or disorders** that may limit or prevent their full and effective participation in university activity under equal conditions:

- Physical, psychic and/or sensory disability
- Autism spectrum disorder
- Psychological disorders that limit or prevent normal academic performance
- Specific learning difficulties: difficulty in writing, written expression, mathematical difficulties and others
- Attention deficit disorder, with or without hyperactivity
- Serious chronic or long-term illness that limits academic performance
- High Intellectual Ability



UAD Inclusive Program

“Education in Equal Conditions”



Direct
Actions

Resources and
Adaptations

Grants and Scholarships
Programmes

* Certificado de discapacidad y NEE

INDIRECT
ACTIONS

AWARENESS
WORKSHOPS

CAMPUS
ACCESSIBILITY

DISSEMINATION
ACTIONS

PARTICIPATION IN
PROJECTS

“without a
decrease in the
required academic
level”

RD 1791/2010 University
Student Statute Art. 65

UAD Mission

Guarantee the **Equality** and **Inclusion** of all people with Disabilities in our University Community at the Universidad Politécnica.

Spanish Organic Law 6/2001, of Universities modify by the Organic Law 4/2007 and D 74/2010, Art 178 Statutes of UPM

Aims:

- Promotes an **inclusive learning and working environment** for people with disabilities
- Information, advice and guidance
- Equal opportunities
- Training and awareness-raising
- Universal accessibility
- Curricular adaptations
- Support to Schools

Belongs to the network **SAPDU of Support Services for People with Disabilities** at the University, together with 56 other Spanish universities.



UAD Centres Mission

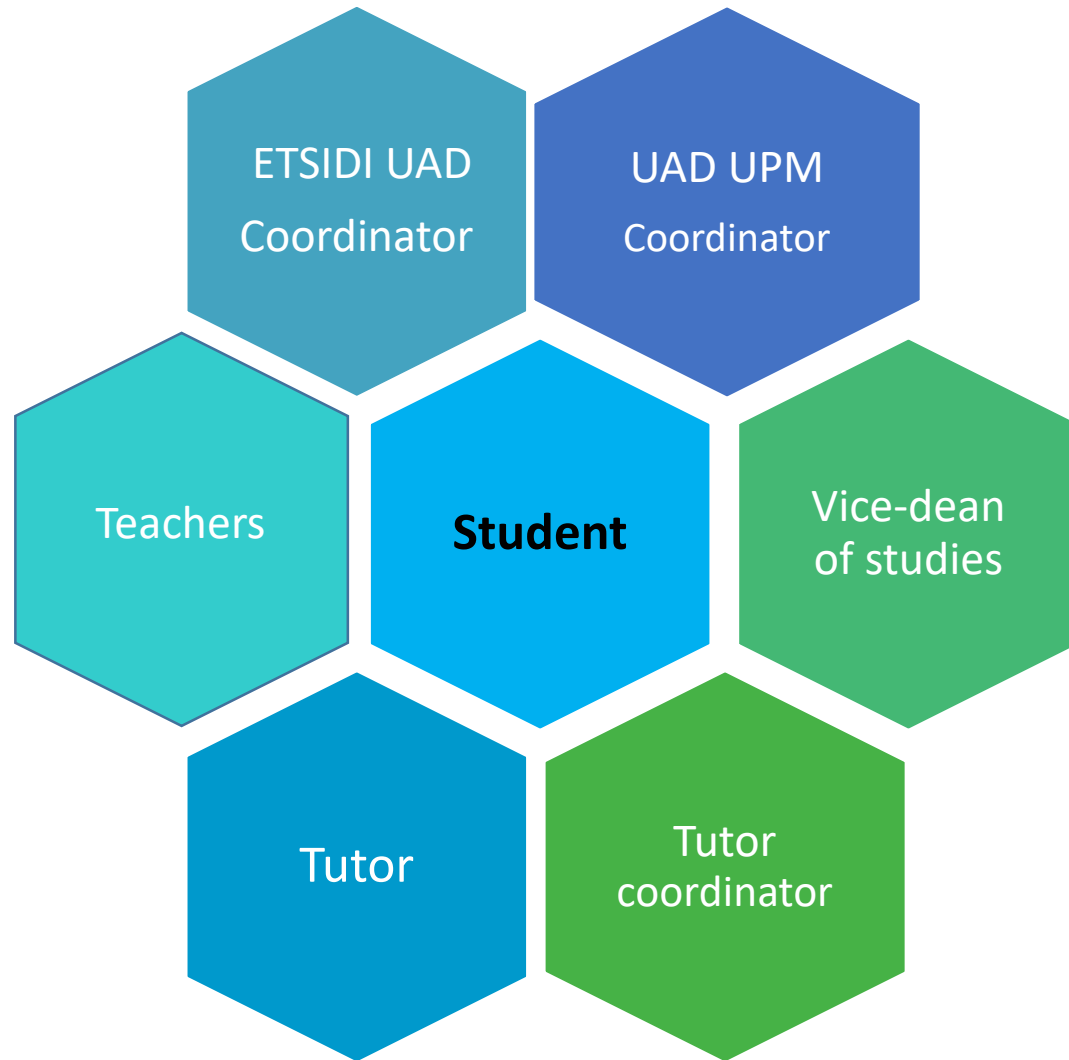
Guarantee the **Equal Opportunities** and **Inclusion** of all people with Disabilities in our University Community at the School

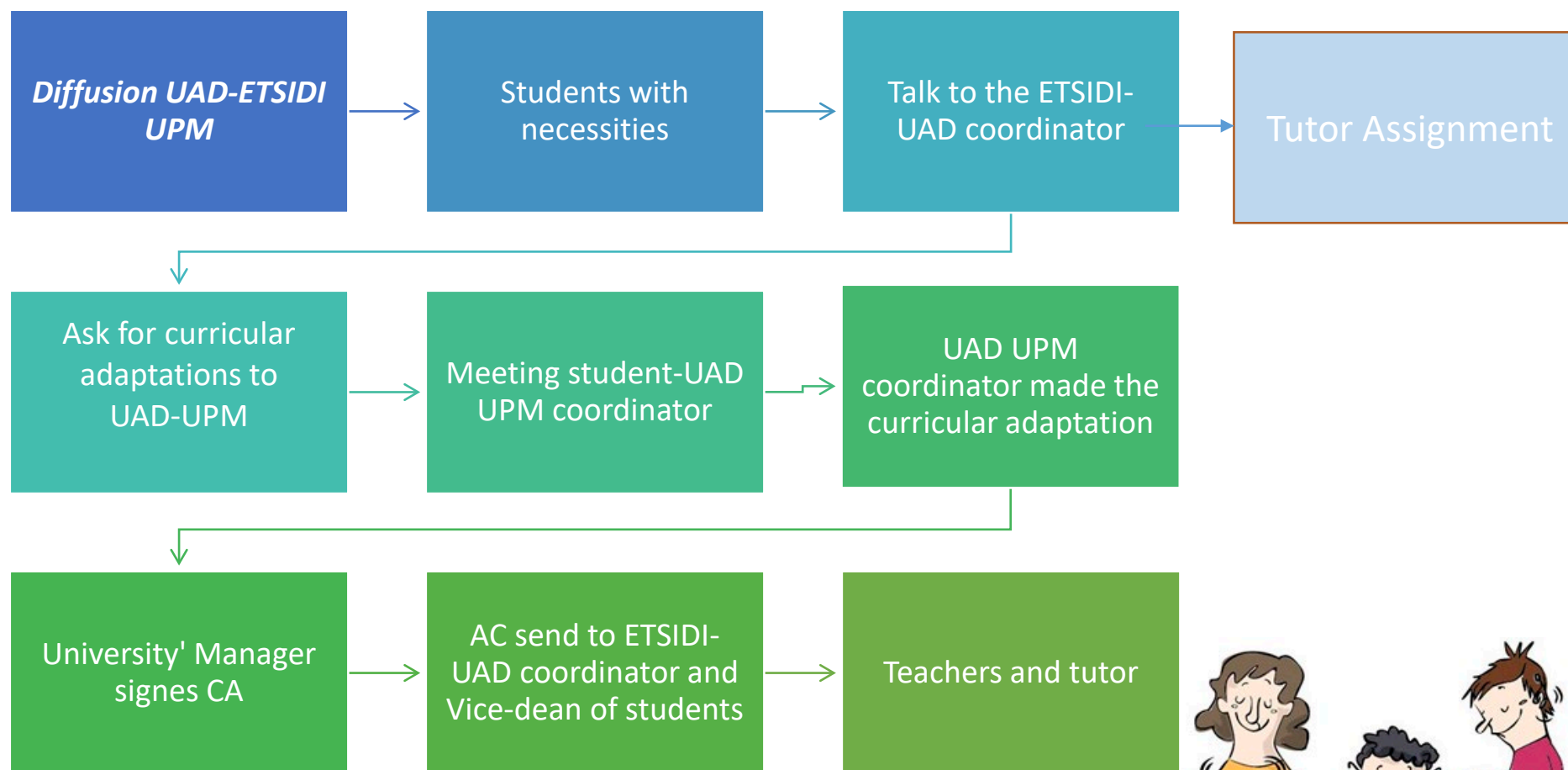
Aims:

- Create an enabling environment by providing support to students with disabilities
- Attention to Students with disabilities, SNES and, high performance athlete High Intellectual Ability
- Facilitate the relations among students with diversity and the academic environment
- Insure equal opportunities
- Mentor program: Tutor (Teacher)
- Develop the curricula adaptations



UAD-ETSIDI





Student

- 5% of places available for each Title
- Exemption total credits enrolled, if you have certificate of disability $\geq 33\%$
- Informing to UAD of your disability is not required; it is voluntary
- Identify yourself and the nature of your disability is required, if you want or need the UPM to provide academic adjustments or ensure that you are assigned to accessible facilities:
 - Academic advisor; tutor
 - Curricular Adaptation
 - Specific Material
 - Student collaborator



Facilities

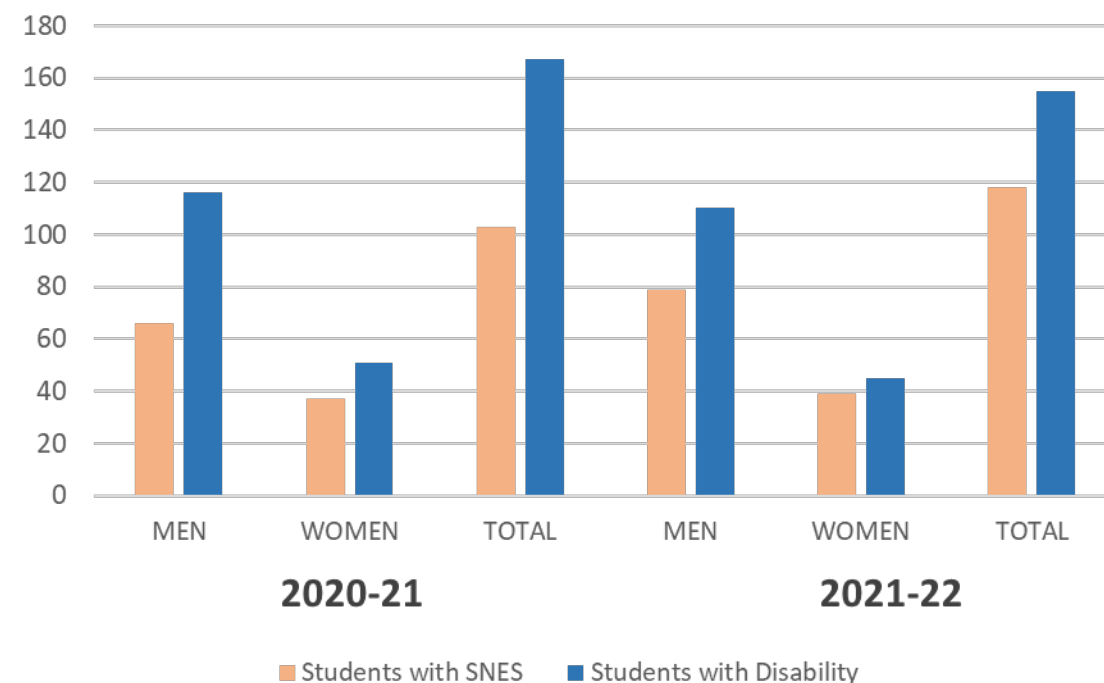
- School coordinator to the attention to the diversity
- Advise coordinator: Tutor
- Curricula adaptation
- Assistive technological services
- Adapted text arrangements: Conversion of study material into accessible formats
- Orientation training
- Academic support for students with learning disabilities
- Help to find internships
- University Library facilities
- Collaboration Student



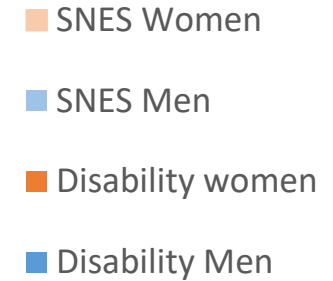
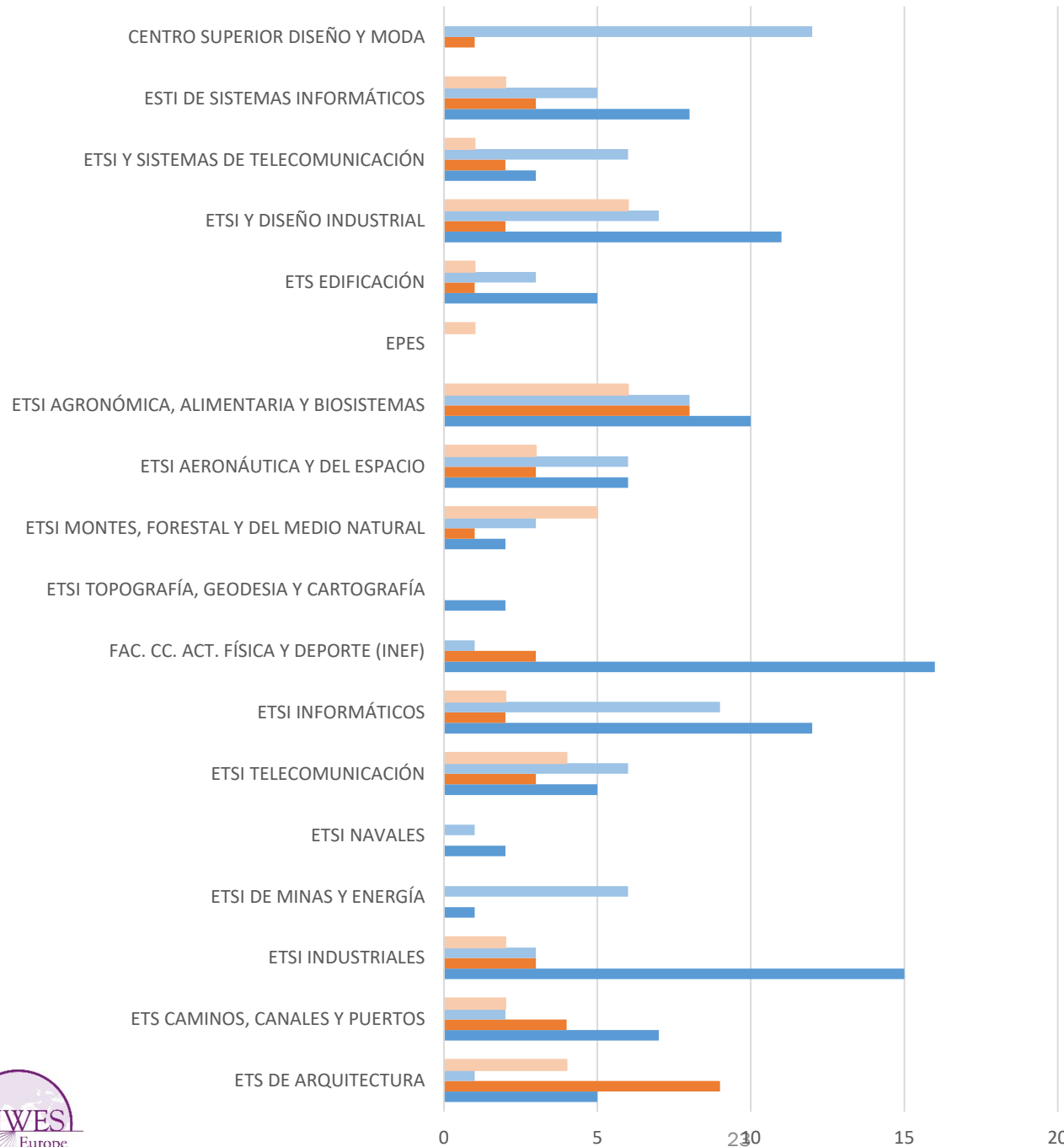
Statistical Analysis

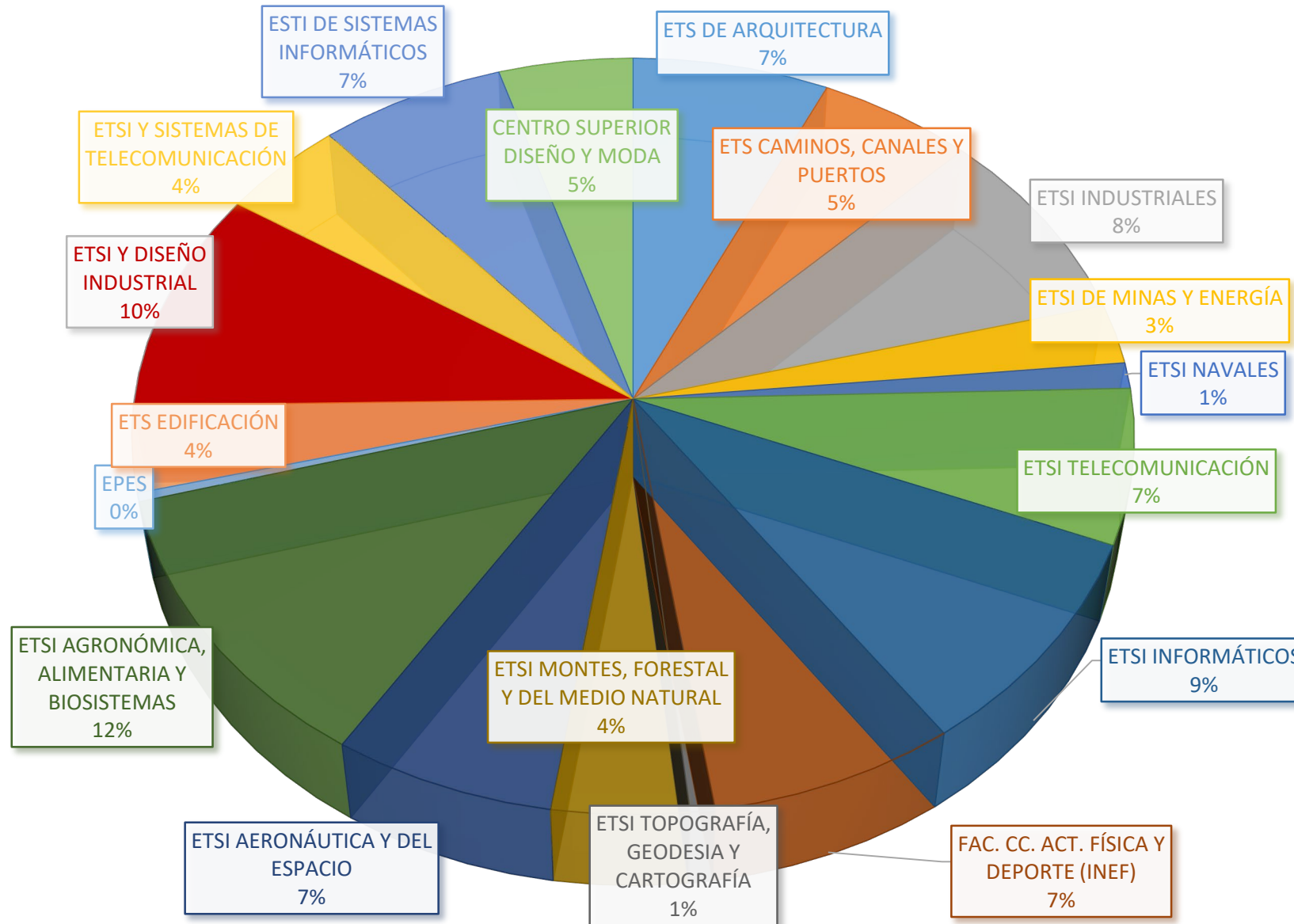
Number of UPM Students with/without Disability and SNES				
	Total Students	Students with SNES	Students with Disability	% Total Students with necessities
2020-21				
MEN	28.257	66	116	0.43
WOMEN	13.569	37	51	0.21
TOTAL	41.826	103	167	0.64
2021-22				
MEN	27.264	79	110	0.69
WOMEN	14.146	39	45	0.59
TOTAL	41.418	118	155	0.66

Number of UPM Students with Disability and SNES



Distribution of students with disability and SNES in UPM Centres

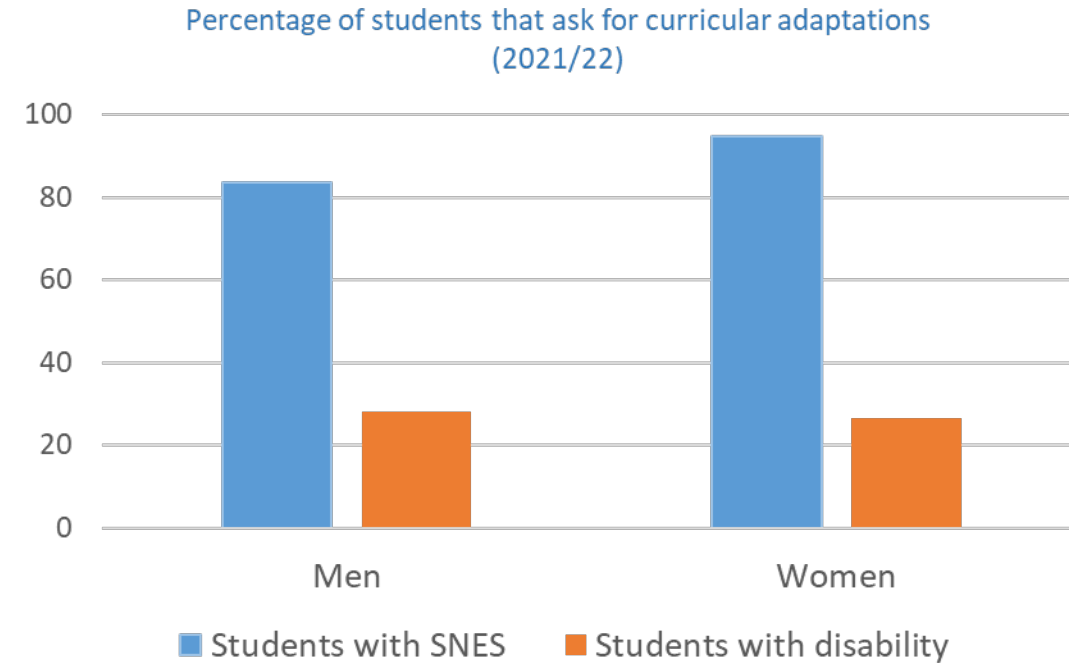




Distribution of students with disability and SNES in UPM Centres

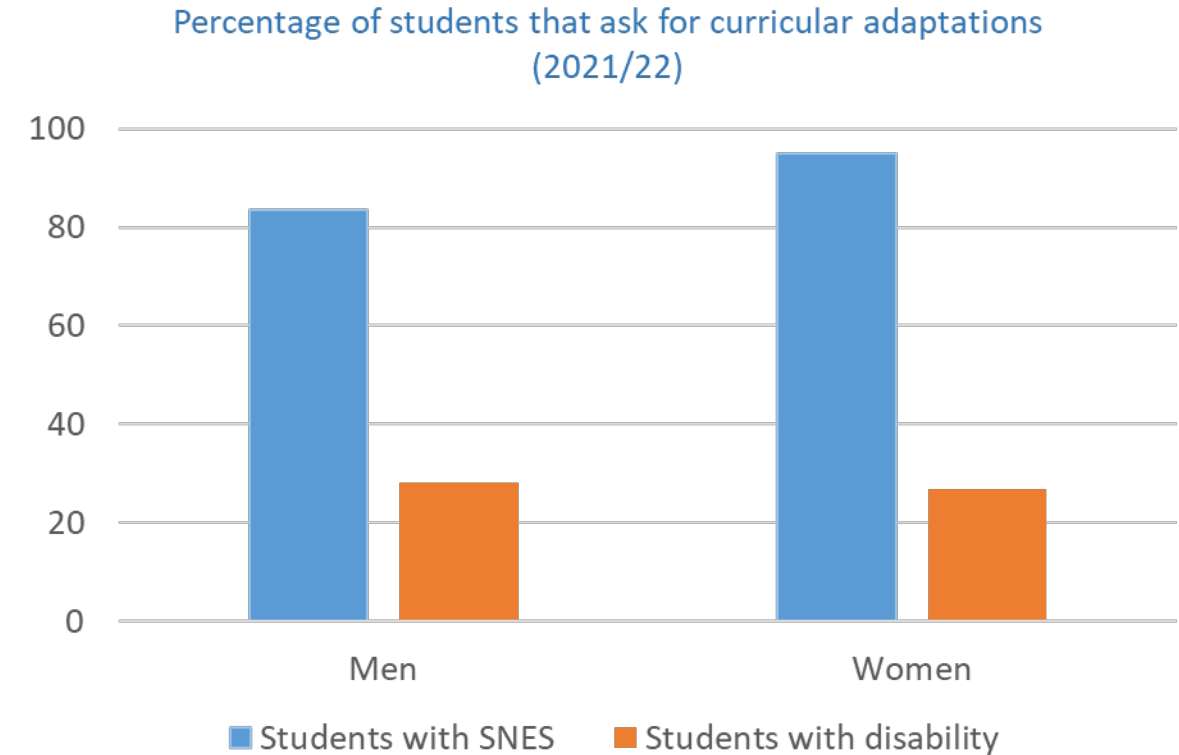
Statistical Analysis

Number of UPM Students with/without Disability and SNES that ask for curricular adaptations in 2021 - 22			
2021-22	Students with SNES	Students with disability	Total St. with Curricular Adaptations
Men	66/79	31/110	97
Women	37/39	12/45	49
TOTAL	103	43	146



Global Analysis

- Less than 1% of UPM students has special educational needs
- Only the 53.5% students with special educational needs ask for curricular adaptation (CA)
- 90% of SNES ask for CA
- Only 28% of students with disability ask for CA



Benefits of the Inclusive Program

“Education in Equal Conditions”



Direct

Accessibility and Design for everyone
Arts.15,18, 22 y 26 del
RD 1791/2010

Curricular Adaptations

Scholarships

Access, Admission and Enrollment. Reservation 5% per degree
Art. 15

Preference in Groups and Physical Positions in the classroom

Extension of exam times. Order Pre 1822/2006

Adaptation of oral exams, type test, use of special programs. Art. 26

Tutoring and Guidance for Teachers. Art. 22

ILSE sign language interpreter

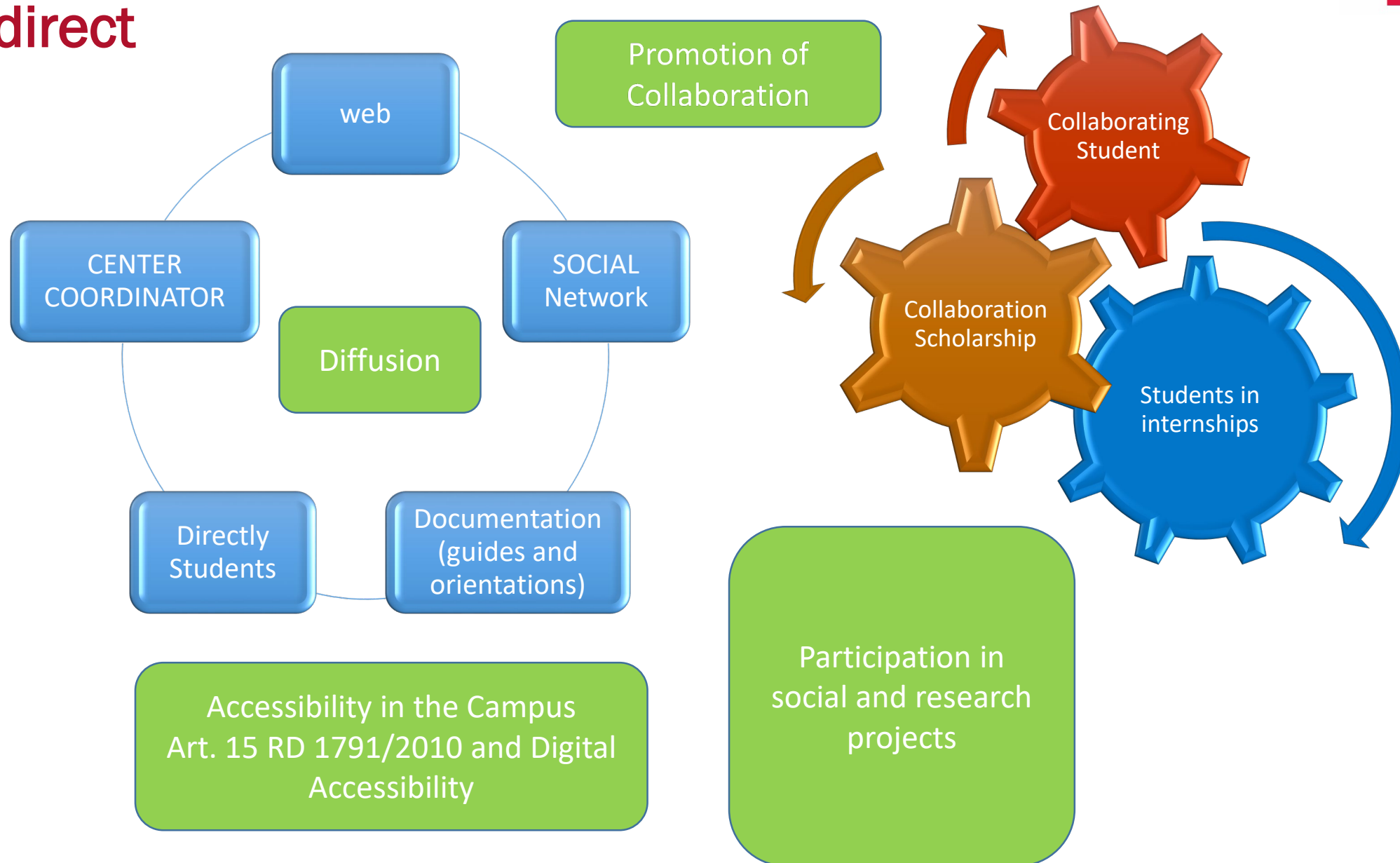
Bank of Products

International and National Mobility (ERASMUS+, SICUE,...). Art. 18

Special Library Services



Indirect



Benefits of the Inclusive Program

Students

Personal enrichment



Teachers

Professional challenge



University

Excellence and Social Responsibility



Society

Diversity Talent



AWARDS

COGITIM Awards to the Best TFG of the Comunidad de Madrid

Special Award: Mention ADAPTA

- TFG In Industrial Design:
- Student: Sila Martinez
- Title TFG: Design of an autonomous transfer system from/to the wheelchair for people with cerebral palsy..
- Tutor: CRISTINA ALIA GARCIA



AWARDS

James Dyson Award 2020

- Student: María de la Sierra González-Palencia & Alicia Muñoz
- Project: **DreamView**
- A modular mask that improves non-invasive mechanical ventilation and offers three different masks in a single product. With this project, the UPM students have managed to solve the problems caused by the daily use of respirators and masks



Other

EQUALITY UNIT

- **Mission:** every student, all our staff and other members of our community should be treated with dignity and mutual respect
- UPM is free from barriers, regardless of age, caring responsibilities, disabilities, gender reassignment, marriage or civil partnership, pregnancy or maternity status, race, religion or belief, sex and sexual orientation

Promotion of STEM Vocations In Students

- UPM Technology Fair, workshop activities and demonstrations aimed at secondary schools and high schools

(Want to be a woman engineering, First Lego League, Classroom Fair, First Lego League, European Researchers' Night...)



¡Thank you for your attention!

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POLITÉCNICA

escuela técnica superior de
ingeniería
y **d**iseño
industrial

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