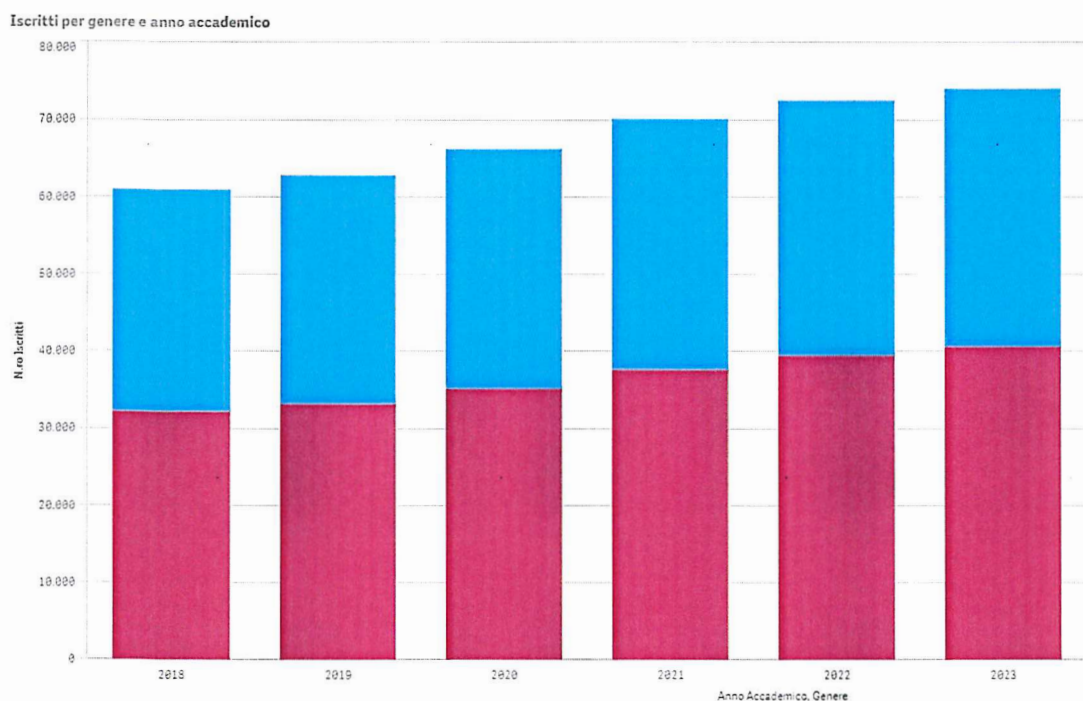## PROVA N. 1 - Selezione 2023N58

1. **Viene mostrato un grafico a linee che rappresenta l'andamento delle iscrizioni universitarie negli ultimi 6 anni accademici.**
   Quali tendenze o pattern emergono dai dati?
   Che tipo di analisi potrebbe essere utile per approfondire la comprensione di questi trend?

Iscritti per genere e anno accademico

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**

   Why a European Year of Skills?

   The European Year of Skills helps people get the right skills for quality jobs and supports companies in addressing skill shortages in Europe.
   Why? Having a workforce with in-demand skills is important for long-term sustainable growth and competitiveness. It will also ensure that the green and digital transitions are socially fair and just.
   How? Thousands of events and activities on skill development will take place across Europe.

PROVA N. 2 - Selezione 2023N58

1. **Viene presentata una tabella in Excel che riassume i dati sulle immatricolazioni per ANNO E REGIONE DI RESIDENZA.**
   Come potresti migliorare la visualizzazione di questi dati?

REGIONE_RESIDENZA	2017	2018	2019	2020	2021	2022
Abruzzo	80	116	105	125	152	124
Basilicata	26	39	42	69	42	53
Calabria	66	97	82	118	130	96
Campania	106	138	139	152	156	146
Emilia-Romagna	339	365	417	543	600	580
ESTERO	314	427	550	810	1.729	1.914
Friuli Venezia Giulia	554	724	852	820	878	850
Lazio	114	143	126	174	192	171
Liguria	35	47	46	65	75	63
Lombardia	548	675	667	818	952	923
Marche	135	208	200	238	335	303
Molise	20	20	27	35	39	25
Piemonte	72	91	103	129	155	156
Puglia	199	265	255	279	361	326
Sardegna	82	128	130	118	185	158
Sicilia	203	282	266	335	369	337
Toscana	120	127	147	225	257	215
Trentino Alto Adige	341	400	433	438	545	503
Umbria	44	67	67	56	75	64
Valle d'Aosta	8	5	12	14	8	11
Veneto	11.358	13.863	15.007	16.391	16.493	16.089

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**
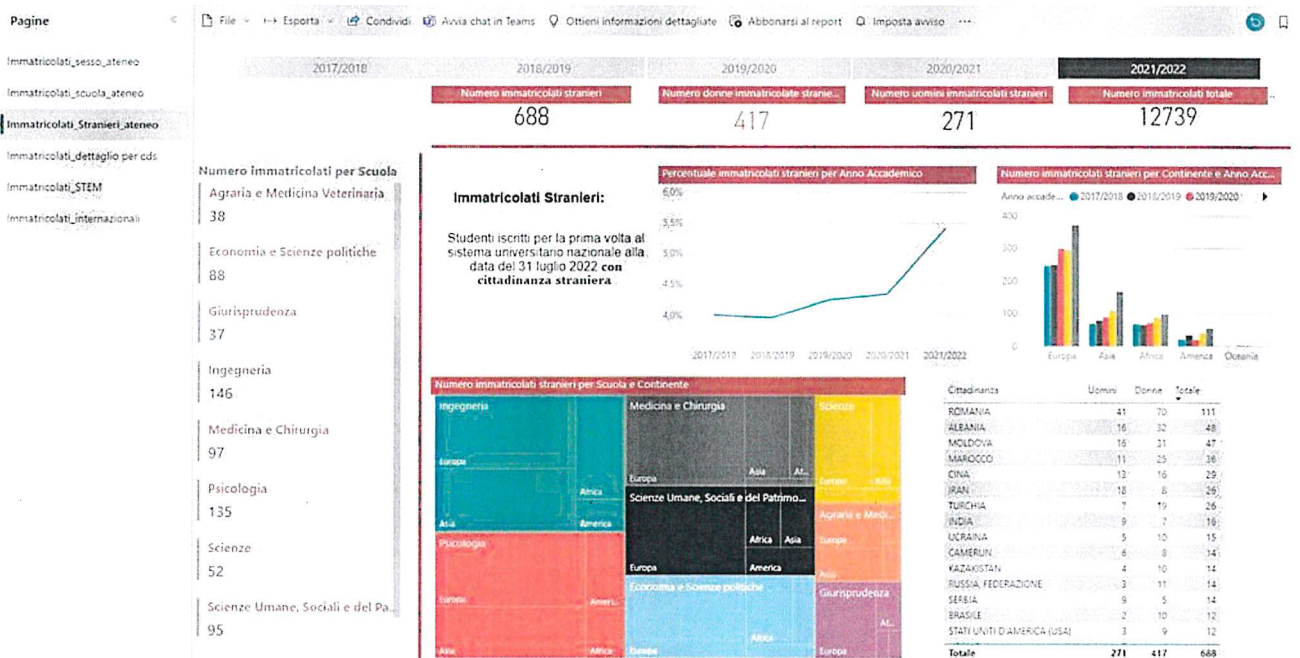
Skills for jobs

Skills for Jobs: the first principle of the European Pillar of Social Rights states that everybody in the EU has the right to quality and inclusive education, training and lifelong learning. The updated Skills Agenda delivers on this principle by helping people to develop and widen their skills throughout their life.

The European Year of Skills has four objectives, which are the priorities for the Year. Throughout the Year, we aim to build on EU actions on skills that are already in place and promote a mindset of up- and reskilling throughout the Member States.

PROVA N. 3 - Selezione 2023N58

1. **Viene mostrato un report in Power BI con diverse visualizzazioni dei dati sulle performance degli studenti.**
   Quali sono i vantaggi e gli svantaggi dell'utilizzo di strumenti di data visualization come Power BI rispetto a software di analisi tradizionali?

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**
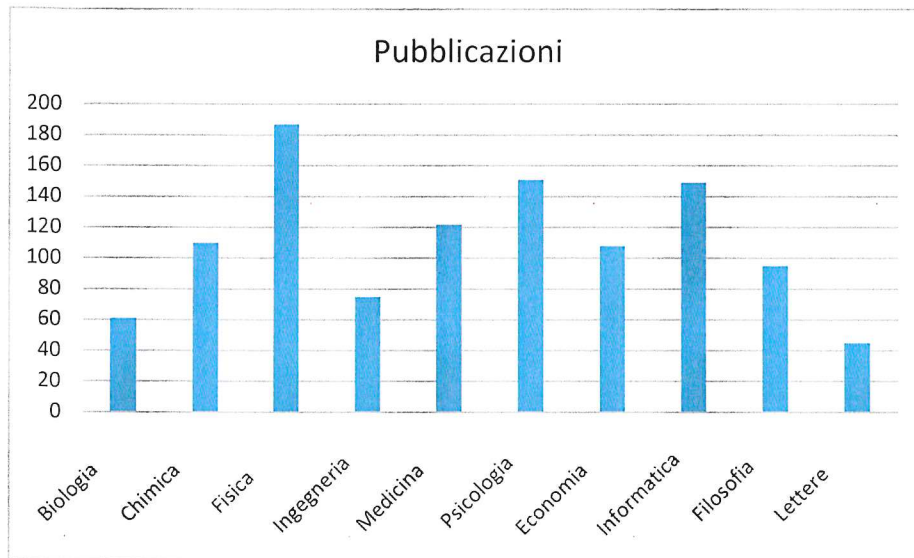
   ### Individual Learning Accounts (ILAs)

   The Council Recommendation on individual learning accounts outlines how Member States can combine financial and non-financial support in an effective way to empower all adults to develop their skills throughout working life. Individual learning accounts are digital wallets with training entitlements. They are addressing the following bottlenecks for people to embark on training: motivation, time and funding.

PROVA N. 4 - Selezione 2023N58

1. **Viene presentato un grafico a barre che mostra il numero di pubblicazioni scientifiche per dipartimento. Tuttavia, il grafico non tiene conto delle dimensioni diverse dei dipartimenti.**
Come ristruttureresti i dati per ottenere un'analisi più equa?

Pubblicazioni

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**
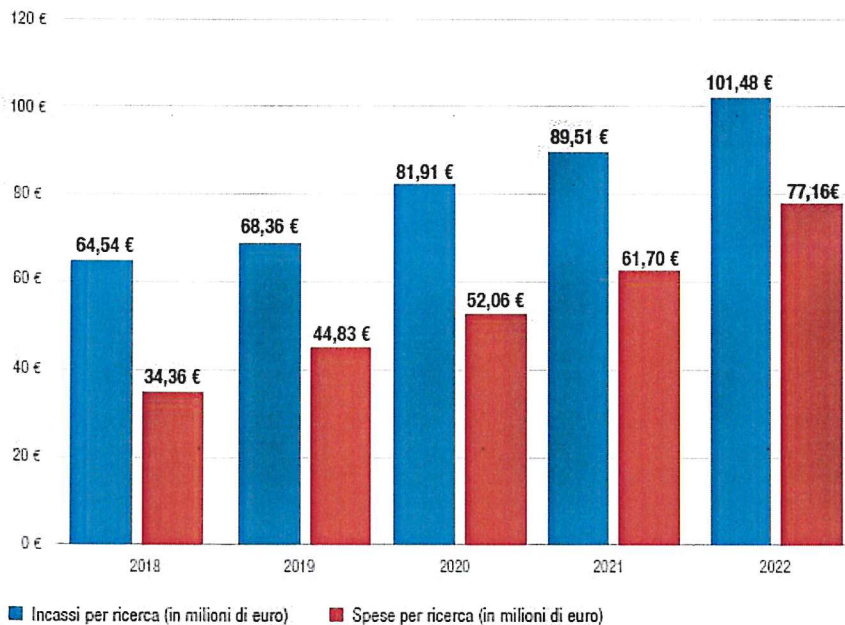
Centres of Vocational Excellence (CoVEs)

The EU-initiative of CoVEs funds through Erasmus+ transnational partnerships for excellence between a wide range of local partners based in the EU and beyond. CoVEs allows VET institutions to rapidly adapt skills provision to evolving economic and social needs, including the digital and green transitions. Projects focus on areas like AI, renewable energies, sustainable agriculture or social inclusion, contributing to regional, economic and social development, innovation, and smart specialisation strategies. Erasmus+ 2021-2027 will fund 100 projects for Centres of Vocational Excellence

1. **Questo grafico contiene informazioni sui finanziamenti per la ricerca ricevuti dall'università negli ultimi 5 anni.**
   Quali indicatori chiave (KPI) utilizzeresti per monitorare le performance di raccolta fondi e identificare eventuali azioni correttive?

Grafico 12. Incassi e pagamenti per ricerca

- Incassi per ricerca (in milioni di euro)   - Spese per ricerca (in milioni di euro)

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**
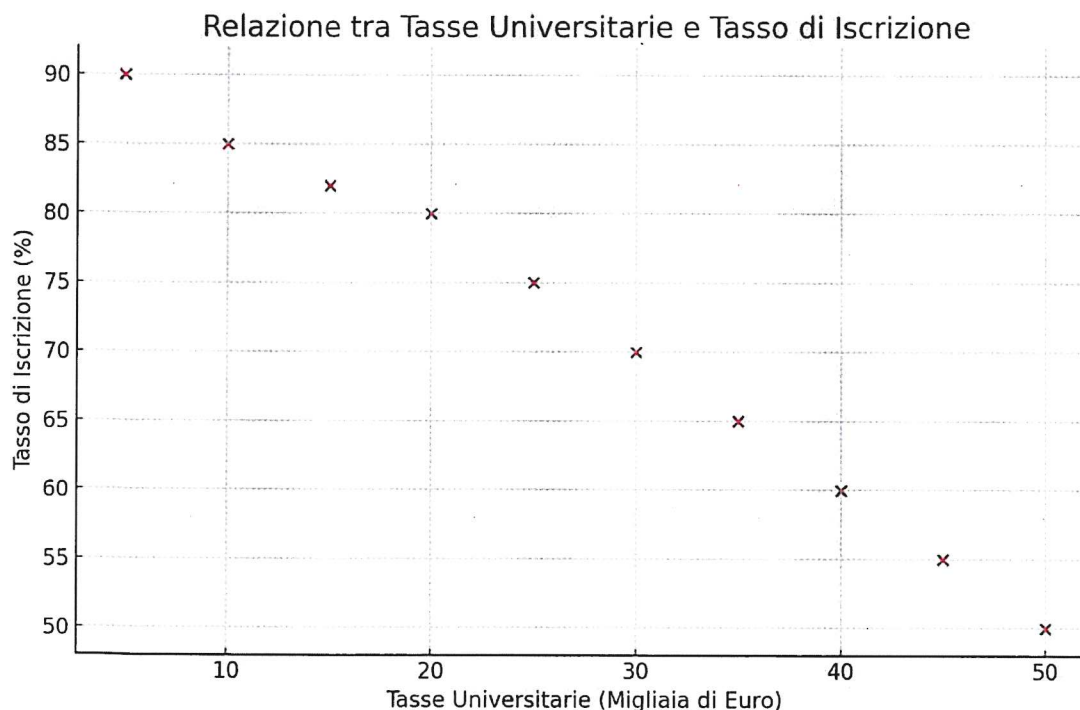
Pact for Skills

The European Commission has launched the Pact for Skills, a shared engagement model for skills development in Europe. Companies, workers, national, regional and local authorities, social partners, cross-industry and sectoral organisations, education and training providers, chambers of commerce and employment services all have a key role to play. To support a fair and resilient recovery and deliver on the ambitions of the green and digital transitions and of the EU Industrial and SME Strategies, the Commission invites public and private organisations to join forces and take concrete action to upskill and reskill people in Europe.

1. **Viene mostrato un grafico a dispersione che rappresenta la relazione tra le tasse universitarie e il tasso di iscrizione.**
   Come interpreteresti questa relazione e quali altri fattori dovresti considerare nell'analisi?

Relazione tra Tasse Universitarie e Tasso di Iscrizione

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**
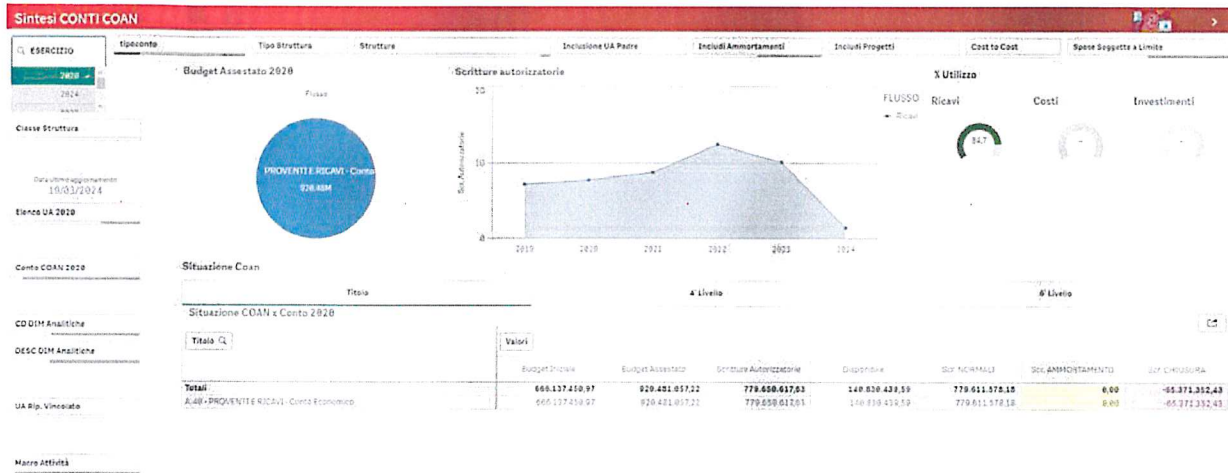
<u>Reform of public employment</u>

The objective of the public employment reform, which forms part of a broader reform of the public administration, is to enhance the administrative capacity at central and local levels in terms of human capital (selection, competences, careers and evaluation). This reform, accompanied by the recruitment of experts, the simplification of administrative procedures and investments in the digitalization of public services, aims at improving the effectiveness of the public administration and ultimately provide better services to citizens and companies.

1. **Viene presentata una dashboard in Qlik che visualizza i dati sulle entrate finanziarie dell'università.**
   Quali sono i vantaggi e gli svantaggi dell'utilizzo di dashboard interattive rispetto ai report statici?

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**
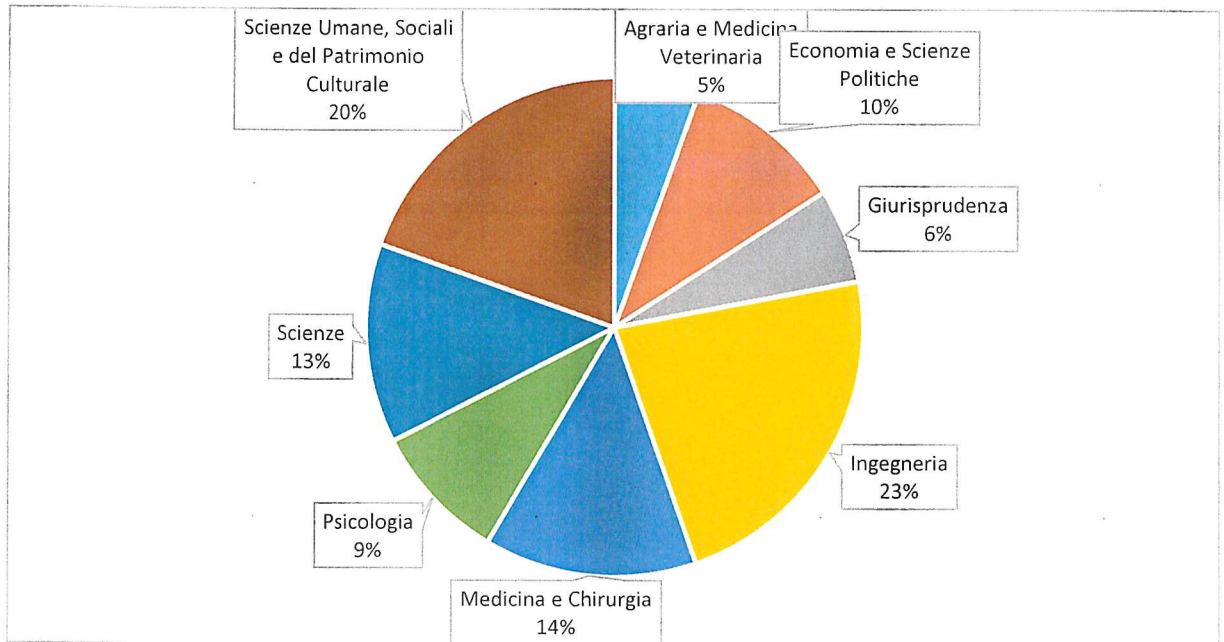
   <u>Skills for green transition</u>

   Green skills are essential to a successful transition towards a green economy and to help facing the challenges and opportunities in reaching climate neutrality. The green transition is creating millions of new jobs in sectors like wind and solar energy and investing in upskilling and reskilling is needed to adapt to this change. Ensuring a fair transition is a priority of the European Year of Skills.

1. **Viene mostrato un grafico a torta che rappresenta la distribuzione degli studenti per scuola. Tuttavia, il grafico non fornisce informazioni sulle dimensioni effettive delle diverse aree.**
Come ristruttureresti la visualizzazione per comunicare meglio queste informazioni?

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**

NextGenerationEU/5

Equality also means economic and social opportunities for all. With NextGenerationEU, we are boosting employment opportunities for people with disabilities, as well as for those living in rural, remote or disadvantaged areas. We are helping more people get decent, adequate housing. And we are investing in inclusive education for children, whatever their background, situation or special needs.

1. Viene mostrata una tabella che riporta il numero di studenti iscritti negli ultimi 5 anni accademici per scuola.
   Quali insight puoi trarre da questi dati? Come li analizzeresti ulteriormente?

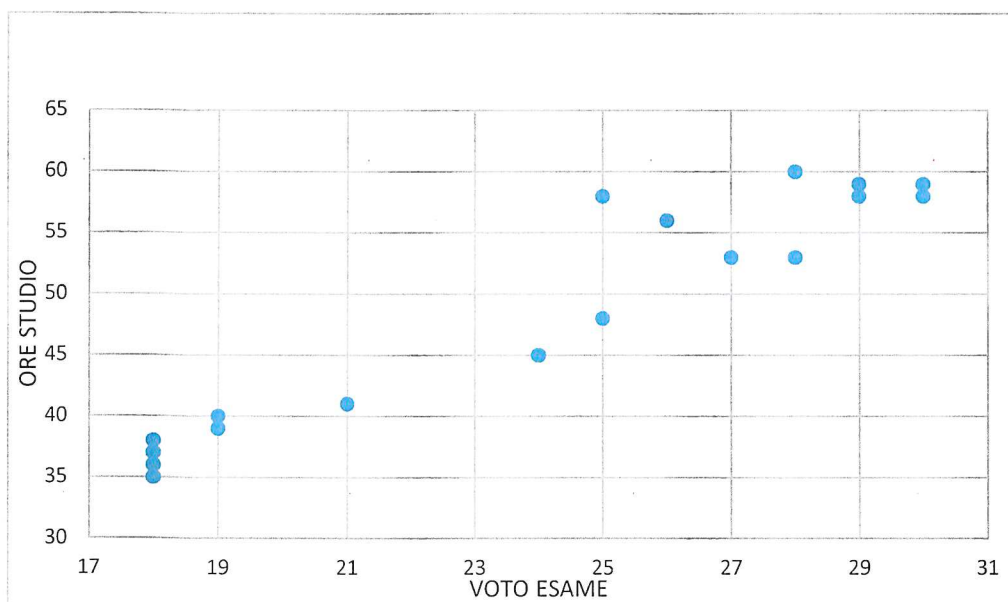| SCUOLA	2018	2019	2020	2021	2022
Agraria e Medicina Veterinaria	3865	3906	4067	4207	4107
Economia e Scienze Politiche	5823	6132	6647	7259	7663
Giurisprudenza	3361	3205	3619	3978	4285
Ingegneria	13802	14656	15388	16254	16506
Medicina e Chirurgia	8971	9048	9210	9455	9720
Psicologia	5750	5874	5979	6269	6494
Scienze	7239	7592	8119	8749	9325
Scienze Umane, Sociali e del Patrimonio Culturale	12246	12474	13260	14034	14501

2. Instruction: read the excerpt from the website of the European Union and translate the text into italian.

Skills and Gender Equality

The European Union has a robust policy framework on gender equality. The initiatives below are part of the EU's efforts to close the gender gaps in the context of skills. Long-standing gender inequalities continue to present challenges for women's participation in the labour market. That is why women are part of the focus for the European Year of Skills. The EU 2030 headline targets from the European Pillar of Social Rights Action Plan, of at least 78% of adults employed and 60% participating in training every year, require significant effort to activate more women in the labour market.

PROVA N. 10 - Selezione 2023N58

1. Viene mostrato un grafico a dispersione che rappresenta la relazione tra le ore di studio degli studenti e i loro voti medi. Come interpreteresti questo grafico e quali ulteriori analisi suggeriresti?

VOTO	ORE
18	38
18	35
18	37
19	39
18	36
24	45
19	40
21	41
25	58
28	60
29	58
30	58
30	59
25	48
27	53
29	58
29	59
26	56
28	53

2. Instruction: read the excerpt from the website of the European Union and translate the text into italian.
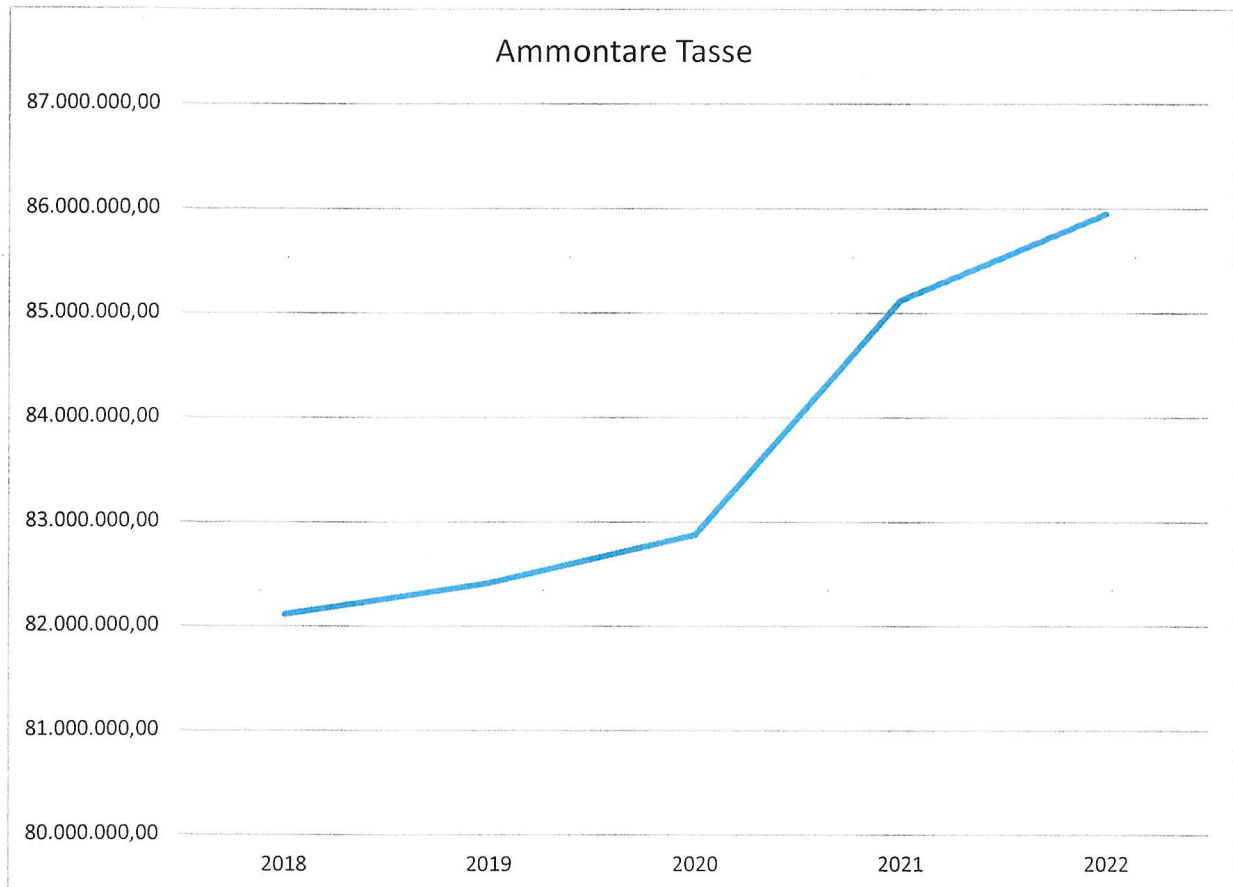
European Training Foundation

The European Training Foundation (ETF) is the EU agency supporting the countries of the EU neighbourhood to reform their education, training and labour market systems. In line with the objectives of the EU Green Deal and the European Year of Skills, it actively supports progress towards sustainable, carbon-neutral, and circular economies and societies through skills development.

1. Viene mostrato un grafico a linee che rappresenta l'andamento delle entrate dell'università provenienti dalle tasse degli studenti negli ultimi 5 anni.
   Quali tendenze o pattern emergono dai dati?

Ammontare Tasse

Anno	Ammontare
2018	82.000.000,00
2019	82.500.000,00
2020	82.800.000,00
2021	85.100.000,00
2022	85.900.000,00

2. Instruction: read the excerpt from the website of the European Union and translate the text into italian.

NextGenerationEU/1

NextGenerationEU is more than a recovery plan – it is a once in a lifetime chance to emerge stronger from the pandemic, transform our economies and societies, and design a Europe that works for everyone.
We have everything we need to make this happen. We have a vision, we have a plan and we have agreed to invest €806.9 billion* together. Find out how the EU is making Europe healthier, greener, and more digital, and how you can be part of the change.

1. Viene presentata una tabella che riassume i dati sulle immatricolazioni per scuola e gli immatricolati con titolo straniero.
   Quali tendenze o pattern emergono dai dati? Quali considerazioni possono essere fatte?

SCUOLE	Immatricolazioni	Imm. con titolo Straniero
AGRARIA E MEDICINA VETERINARIA	1229	265
ECONOMIA E SCIENZE POLITICHE	2378	242
GIURISPRUDENZA	1175	10
INGEGNERIA	5305	623
MEDICINA E CHIRURGIA	2961	140
PSICOLOGIA	2245	273
SCIENZE	3385	452
SCIENZE UMANE, SOCIALI E DEL PATRIMONIO CULTURALE	4409	389
Totale	**23087**	**2394**

2. Instruction: read the excerpt from the website of the European Union and translate the text into italian.

NextGenerationEU/2

NextGenerationEU sets the blueprint for a greener, more digital, more resilient future.
To bring its projects to life, however, investment is needed on a grand scale, with the EU's long-term budget and NextGenerationEU funding combining to make the largest stimulus package ever financed in Europe.
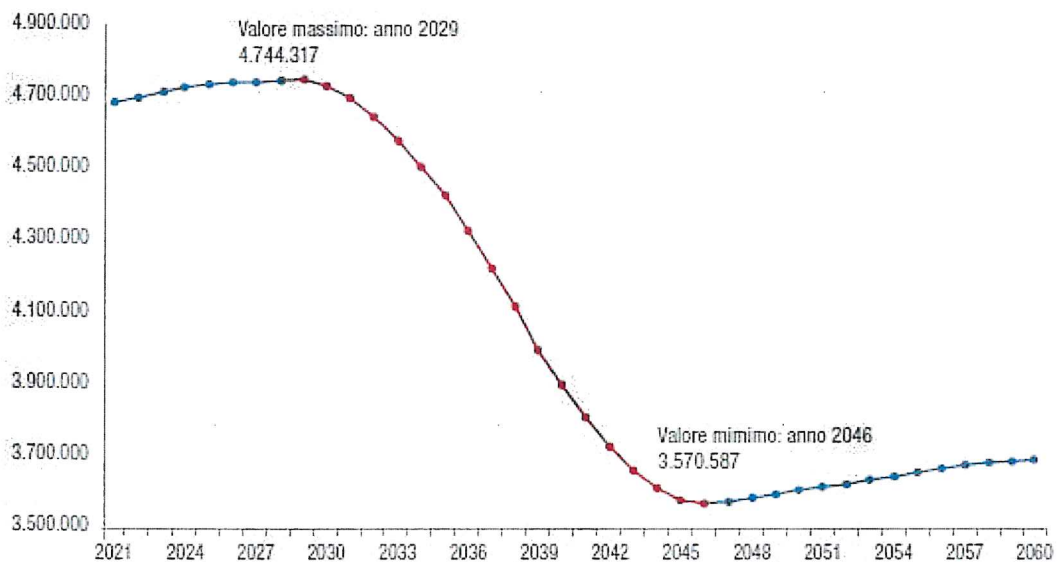Through the Recovery and Resilience Facility (RRF) and National Recovery and Resilience Plans (RRPs), funds are allocated to each country's specific needs.

1. **Viene mostrato un grafico con le proiezioni demografiche che mostrano un calo significativo del numero di residenti nella fascia d'età 18-26 anni nei prossimi decenni. Quali tendenze o pattern emergono dai dati? Che strategie possono essere attuate per il reclutamento di nuove matricole presso la nostra Università?**

Grafico 1. Residenti in Italia: età 18-26
Proiezione 2022-2060

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**

NextGenerationEU/3

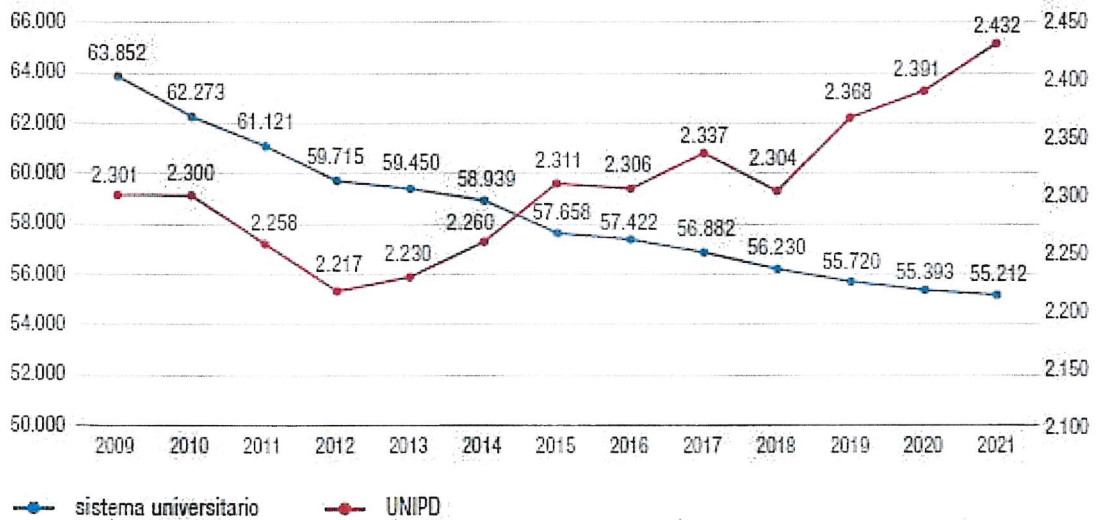Focusing on six key areas, NextGenerationEU investment projects are designed to:
- Boost the green transition through the promotion of renewable energies, sustainable mobility and more
- Accelerate digital transformation through greater digitisation of public services and the wider economy
- Reinforce social infrastructure and services, while reducing territorial disparities
- Enhancing access to advanced education and training in skills relevant to the future economy
- Support inclusive growth, research and development, and innovation for all
- Ensure modern, efficient and accessible healthcare services.

1. Viene mostrato un grafico a linee che rappresenta l'andamento del personale tecnico amministrativo. Quali tendenze o pattern emergono dai dati?

Grafico 8a. Personale tecnico e amministrativo: sistema universitario e Università di Padova.

2. Instruction: read the excerpt from the website of the European Union and translate the text into italian.
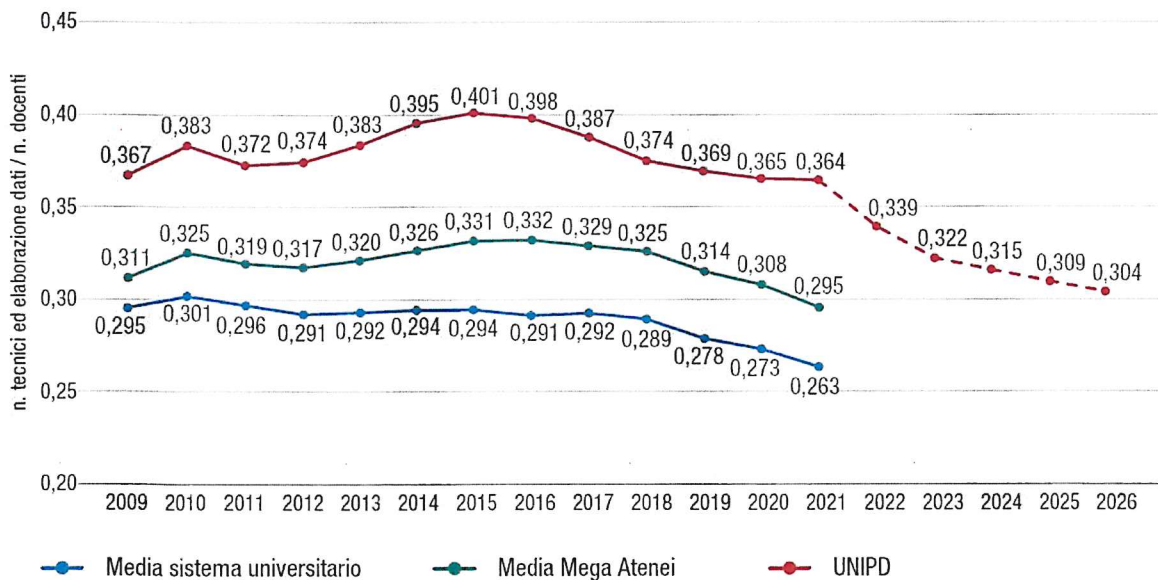
NextGenerationEU Make It Green

Europe is on track to become the first climate-neutral continent by 2050 – we will produce no more greenhouse gases than our ecosystems can naturally absorb. With NextGenerationEU, we will invest in environmentally-friendly technologies, roll out greener vehicles and public transport, and make our buildings and public spaces more energy efficient.

PROVA N. 15 - Selezione 2023N58

1. **Viene mostrato un grafico a linee con rapporto tra personale tecnico-amministrativo e docenti nel sistema universitario italiano, nei Mega Atenei e presso l'Università di Padova (UNIPD). Quali tendenze o pattern emergono dai dati? Si possono ipotizzare delle spiegazioni che giustificano i trend presenti?**

Grafico 9b. Evoluzione del rapporto tra personale tecnico ed elaborazione dati e docente

n. tecnici ed elaborazione dati / n. docenti		

UNIPD: 0,367 0,383 0,372 0,374 0,383 0,395 0,401 0,398 0,387 0,374 0,369 0,365 0,364 0,339 0,322 0,315 0,309 0,304

Media Mega Atenei: 0,311 0,325 0,319 0,317 0,320 0,326 0,331 0,332 0,329 0,325 0,314 0,308 0,295

Media sistema universitario: 0,295 0,301 0,296 0,291 0,292 0,294 0,294 0,291 0,292 0,289 0,278 0,273 0,263

Anni: 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026

Legenda:
- Media sistema universitario
- Media Mega Atenei
- UNIPD

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**

<u>NextGenerationEU Make it Digital</u>

The future will be driven by technology. So we're making the next 10 years Europe's digital decade! With NextGenerationEU:
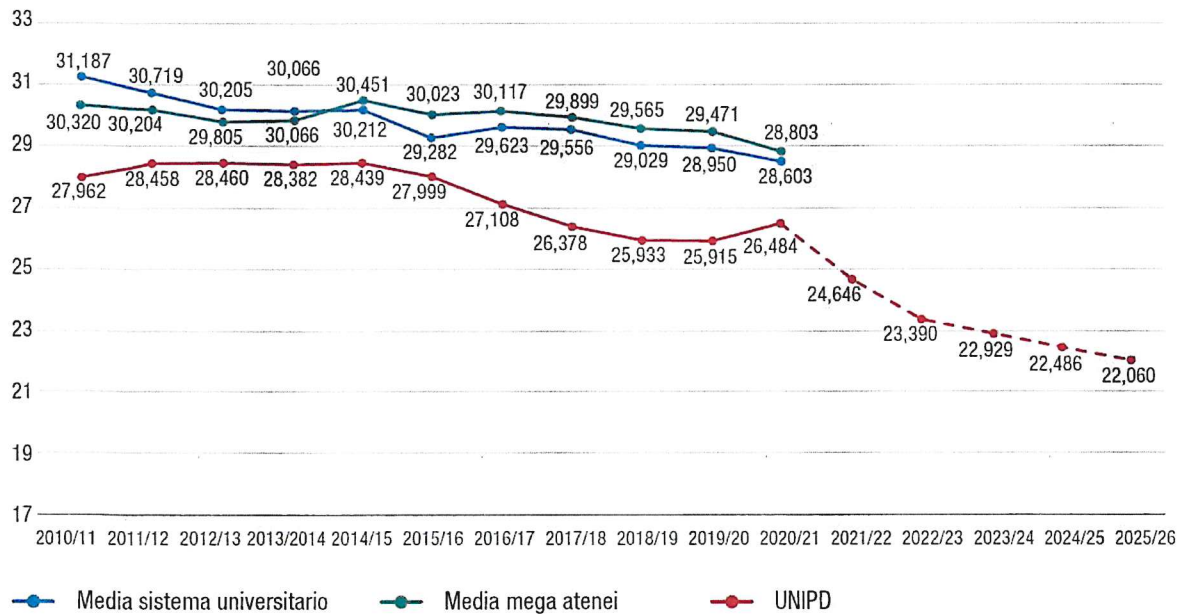
- you will be able to connect everywhere with 5G and EU-wide ultra-fast broadband
- you will receive a digital identity (eID), making it easier to access online public services and giving you more control over your personal data
- our cities will become smarter and more efficient
- online shopping will be more secure
- artificial intelligence will help us to fight climate change and improve healthcare, transport and education.

PROVA N. 16 - Selezione 2023N58

1. **Questo grafico mostra il rapporto tra studenti iscritti e personale docente negli anni. La linea rossa è il rapporto di UNIPD.**
   Quali tendenze o pattern emergono dai dati? Si possono ipotizzare delle spiegazioni che giustificano i trend presenti?

Grafico 10a. Evoluzione del rapporto tra studenti iscritti e personale docente-ricercatore

Legenda:
- Media sistema universitario
- Media mega atenei
- UNIPD

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**

NextGenerationEU Make it Strong

The pandemic has impacted all of our lives. Many have suffered illness or bereavement, others have lost jobs or income. Now we want to build a stronger, more resilient Europe. With NextGenerationEU, we are:
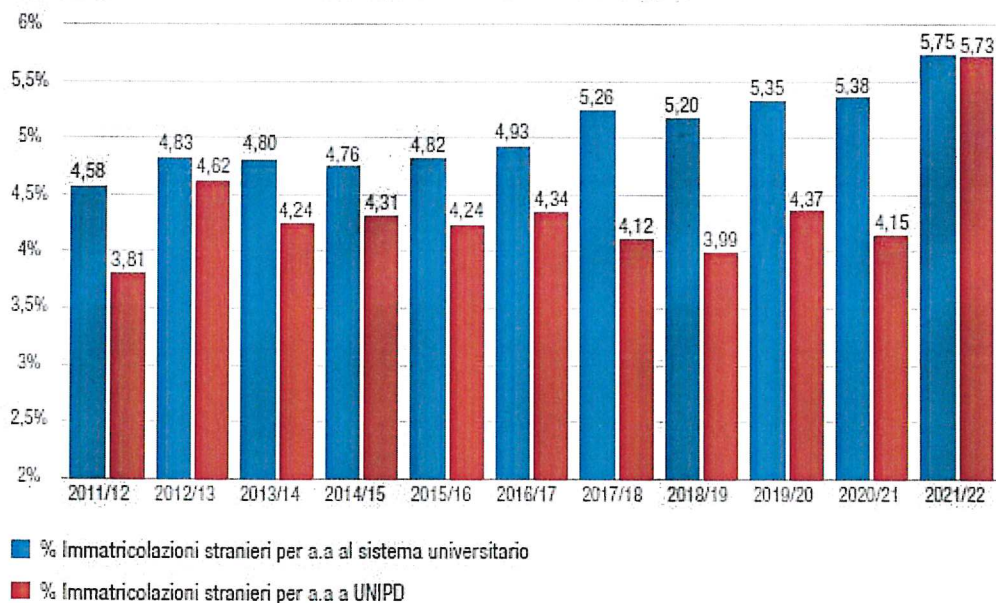- encouraging young people to study science and technology, which open doors to the green and digital jobs of the future;
- supporting further education and apprenticeships;
- offering loans and grants to young entrepreneurs.

PROVA N. 17 - Selezione 2023N58

1. **Viene mostrato un grafico a barre che rappresenta la quota di immatricolazioni stranieri nel sistema universitario e in UNIPD.**
   Quali tendenze o pattern emergono dai dati? Si possono ipotizzare delle spiegazioni che giustificano i trend presenti?

Grafico 2. Percentuale di immatricolate/i stranieri per anno accademico

- ■ % Immatricolazioni stranieri per a.a al sistema universitario
- ■ % Immatricolazioni stranieri per a.a a UNIPD

2. **Instruction: read the excerpt from the website of the European Union and translate the text into italian.**

NextGenerationEU/4

With NextGenerationEU, we are:
- fighting against racism and xenophobia;
- promoting gender equality and women's empowerment;
- protecting the rights of the LGBTQI+ community and combating discrimination;
- strengthening EU law to cover all forms of hate speech and hate crime.