



Technology Trends 2023 and the Future of Work

Puerto Rico Science Research and Technology Trust

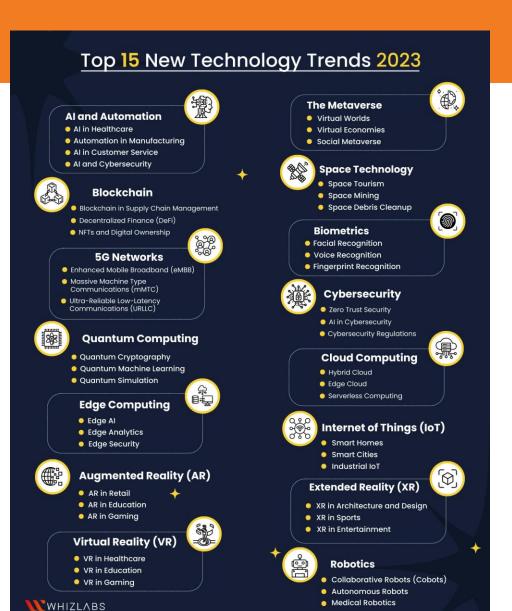
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# La adopción de tecnología seguirá siendo un motor clave de la transformación empresarial en los próximos cinco años.

- Una aplicación más amplia de los estándares ambientales, sociales y de gobierno corporativo (ESG) dentro de sus organizaciones también tendrá un impacto significativo.
- Los efectos más significativos de creación y destrucción de empleo provienen de las tendencias ambientales, tecnológicas y económicas.
- Dentro de la adopción de tecnología, big data, computación en la nube e inteligencia artificial tienen una gran probabilidad de adopción.
- El pensamiento analítico y el pensamiento creativo siguen siendo las habilidades más importantes para los trabajadores en 2023.









# **Through Strategic Goals**

To clarify how these trends can drive value for you, start from the strategic objectives of your enterprise.

For example, Gartner research shows that 94% of CEOs want to maintain or accelerate pandemic-driven digital transformation. Consider, then, which technologies will be most relevant, while realizing that they don't all need to be implemented at once.

This view forms the beginnings of your strategic technology roadmapping process.

## **Technology Trends Likely on the Roadmap for Accelerating Digital**

Sustainable Technology	AI TRISM	Wireless- Value Realization	Industry Cloud Platforms	Digital Immune System	Platform Engineering	Superapps	Adaptive Al	Applied Observability	Metaverse
Now	0-1 year			1-2 years			2-3 years		
		•	•	•	•			•	



# **Technologies Drive Much-Needed Business Outcomes**

# **Optimize**

Optimizing IT systems for greater reliability, improving data-driven decision making and maintaining value integrity of AI systems in production

#### **Related Trends:**

Digital Immune System
Applied Observability

**AI TRISM** 

# Scale

Accelerating vertical offerings, increasing the pace of product delivery and enabling connectivity everywhere

#### **Related Trends:**

Industry Cloud Platforms
Platform Engineering

Wireless-Value Realization

Sustainable Technology

# **Pioneer**

Enabling business model change, reinventing engagement with employees and customers, and accelerating strategies to tap new virtual markets

#### **Related Trends:**

Superapps

**Adaptive AI** 

Metaverse











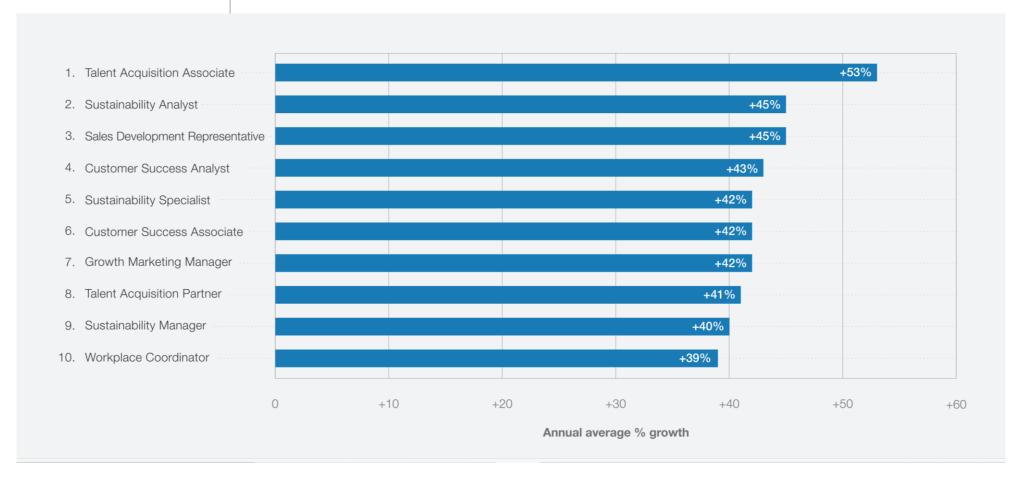
Se espera que el impacto de la mayoría de las tecnologías en el empleo sea positivo en los próximos cinco años.

- La frontera hombre-máquina ha cambiado, con las empresas introduciendo la automatización en sus operaciones a un ritmo más lento de lo previsto anteriormente.
- Los roles de más rápido crecimiento en relación con su tamaño hoy en día están impulsados por la tecnología, la digitalización y la sostenibilidad.
- Los roles de más rápido declive en relación con su tamaño hoy en día están impulsados por la tecnología y la digitalización.
- Se espera un crecimiento del empleo a gran escala en la educación, la agricultura, el comercio digital y el comercio.
- Las pérdidas más significativas se esperan en los roles administrativos y tradicionales de seguridad, manufactura y comercio.
- El pensamiento analítico y el pensamiento creativo siguen siendo las habilidades más importantes para los trabajadores en 2023.





FIGURE B1.2 Fastest growing job postings on LinkedIn 2018-2022

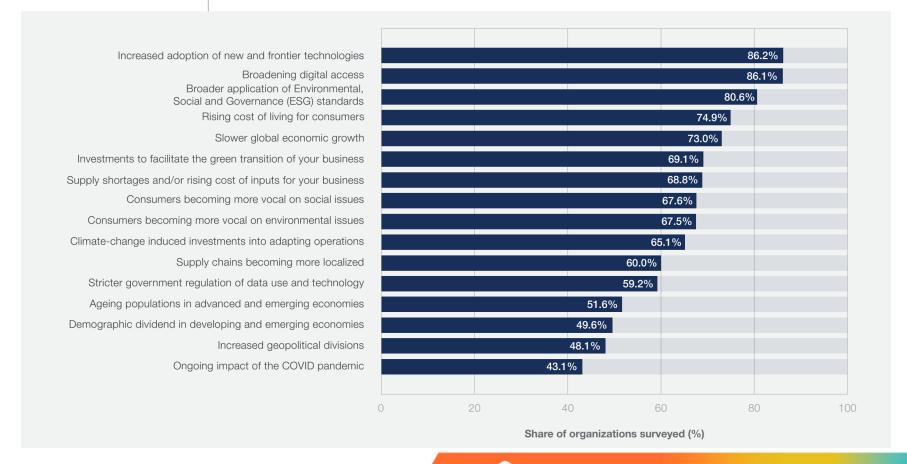




#### FIGURE 2.1

#### Macrotrends driving business transformation

Trends ranked by share of organizations surveyed that identified this trend as likely or increasingly likely to drive transformation in their organization.



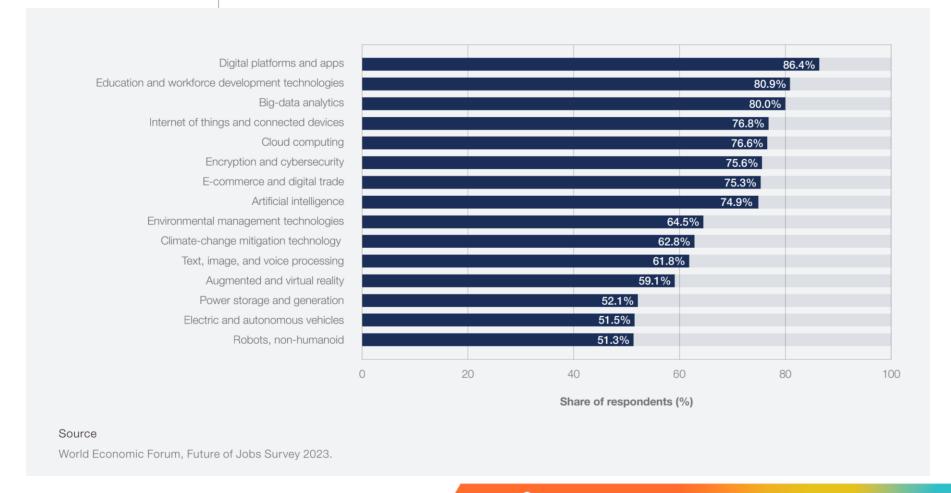




#### FIGURE 2.4

## Technology adoption, 2023-2027

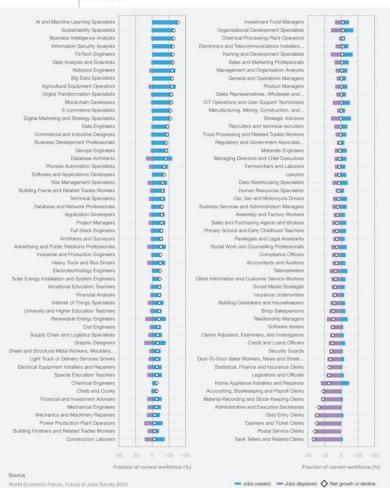
Technologies ranked by the share of organizations surveyed who are likely or highly likely to adopt this technology over the next 5 years





#### FIGURE 3.3 New jobs and lost jobs, 2023-2027

ojected job creation (blue) and displacement (purple) betwen 2023 and 2027, as a fraction of current employment, for the global employee data set studied in this report. The projected net growth or decline for each occupation in the next five years (diamonds) calculated by subtracting the two fractions. The projected structural labour-market churn for each occupation in the next five years is the sum of the two fractions, and is indicated by the full width of the bars. Averaged across occupations, structural labour-market chum represents 23% of



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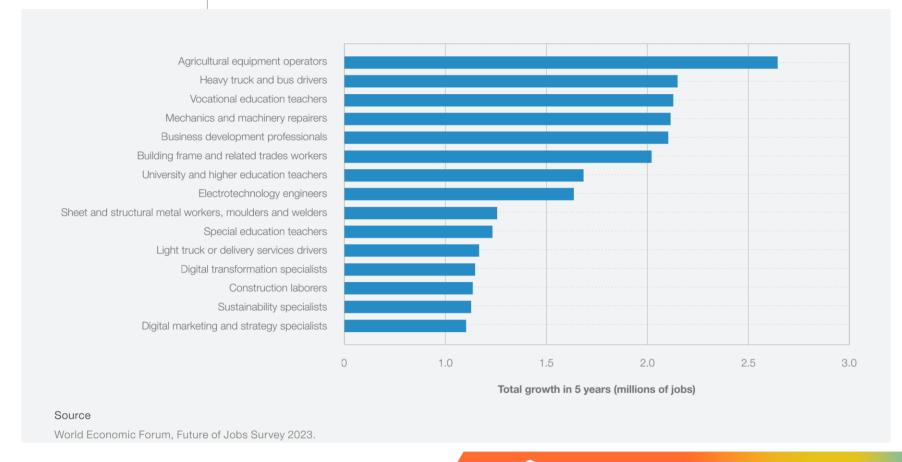




FIGURE 3.4

## Largest job growth, millions

Top roles ordered by largest net job growth, calculated based on ILO Occupation Employment statistics and growth reported by organizations surveyed



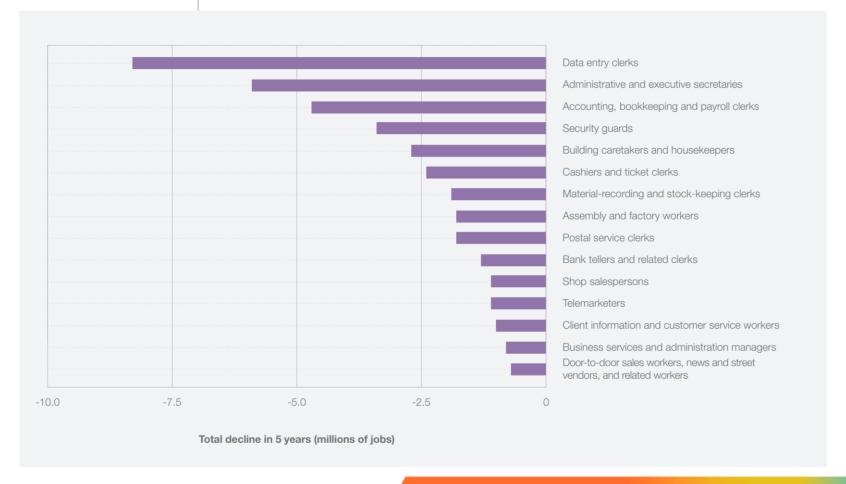




#### FIGURE 3.5

### Largest job decline, millions

Top roles ordered by the largest net jobs reduction, calculated based on ILO Occupation Employment statistics and growth reported by organizations surveyed





#### FIGURE 4.1

## Disruptions to skills

Evolution in the shares of workers' core skills which will change and which will remain the same in the next five years

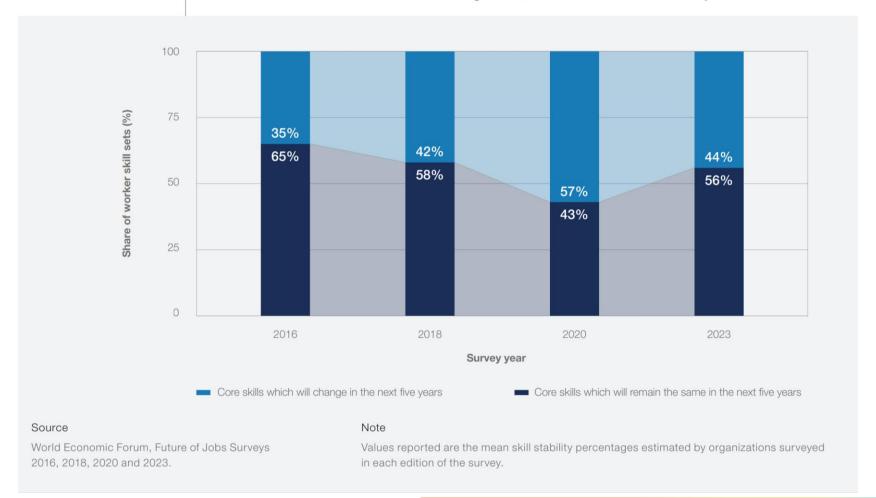


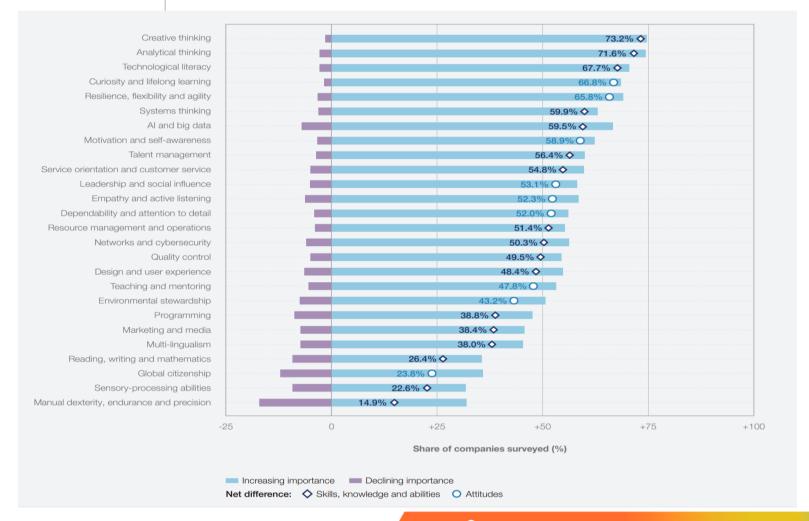




FIGURE 4.3

#### Skills on the rise

Share of organizations surveyed which consider skills to be increasing or decreasing in importance, ordered by the net difference.





# Questions & Answers

