





What trends are
reinforced or changed?



And it will come...
inevitably...



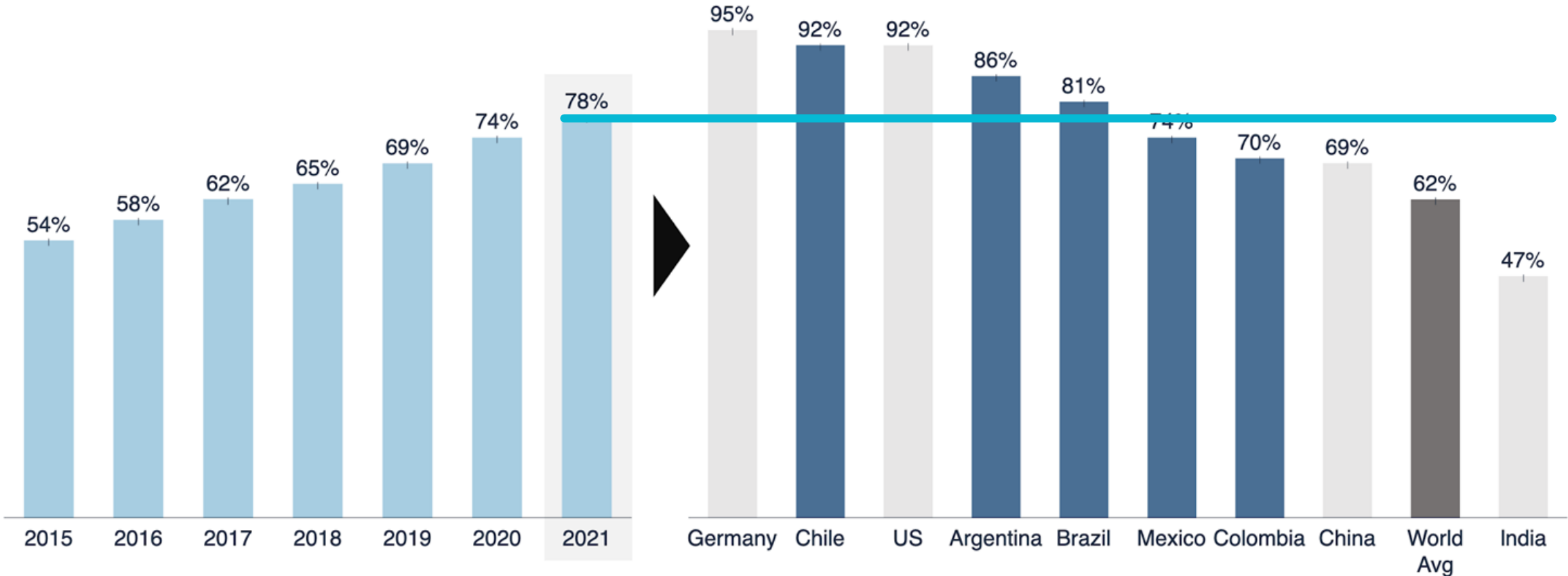
When does a mega trend
impact us?

Before, it took years.
Today, it can be at any time.

The new **DIGITAL** **era**

INTERNET PENETRATION IN LATIN AMERICA HAS SURPASSED CHINA AND INDIA AND IS APPROACHING THAT OF THE MOST DEVELOPED ECONOMIES

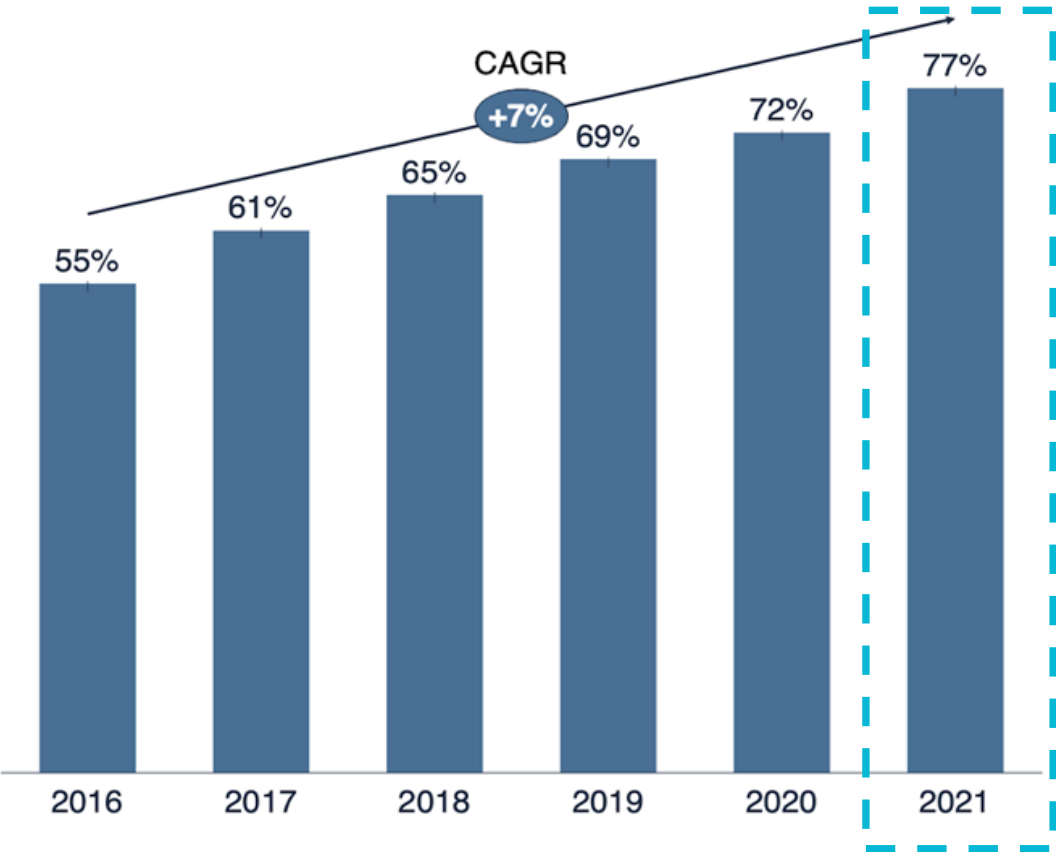
Internet penetration rate by year and region
Latin America, 2015-2021; Worldwide, 2021



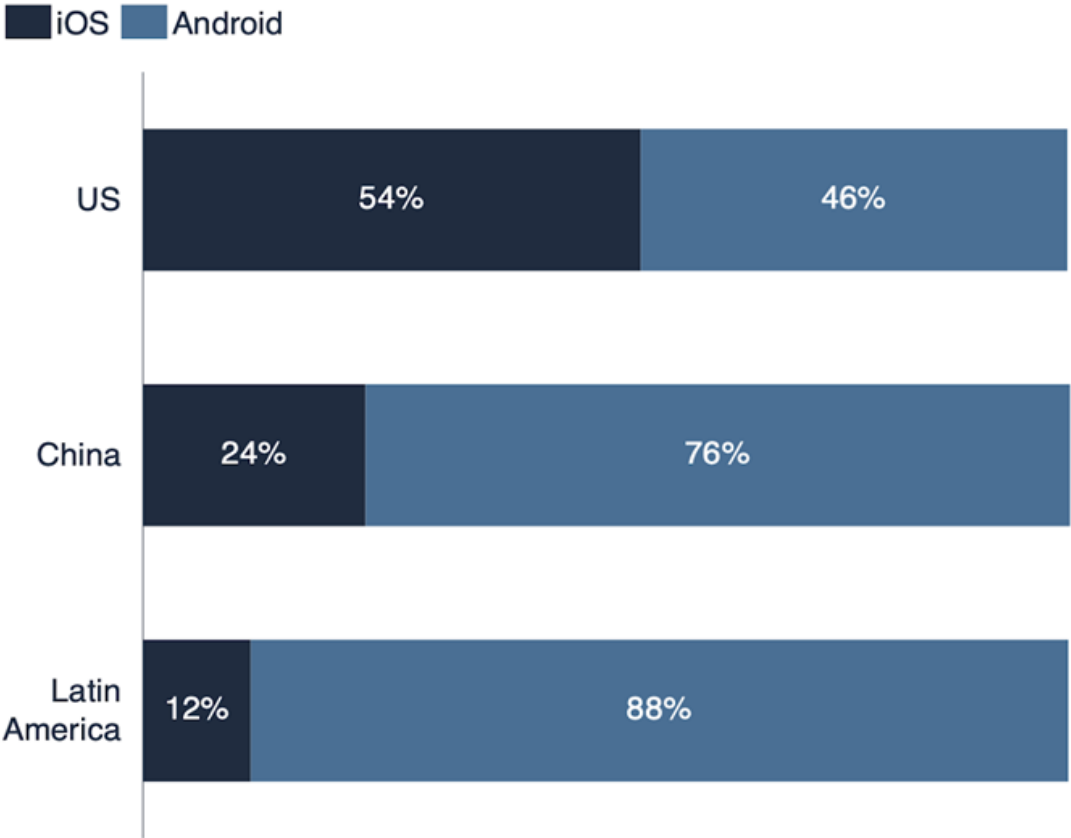
Fuente: Atlantico

SMARTPHONE ADOPTION INCREASED 40% IN THE LAST 5 YEARS, MOSTLY ON ANDROID.

Smartphone adoption rate in Latin America¹
% of total population



Smartphone operating system market share by region²
% of total Android and iOS devices

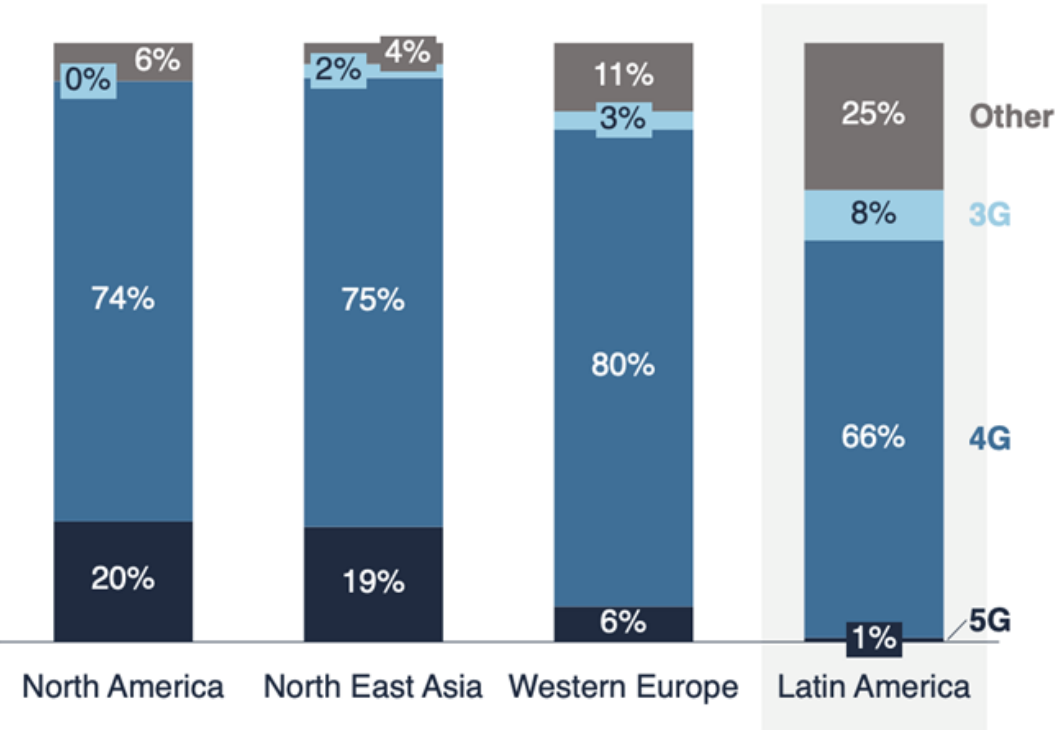


Fuente: Atlantico

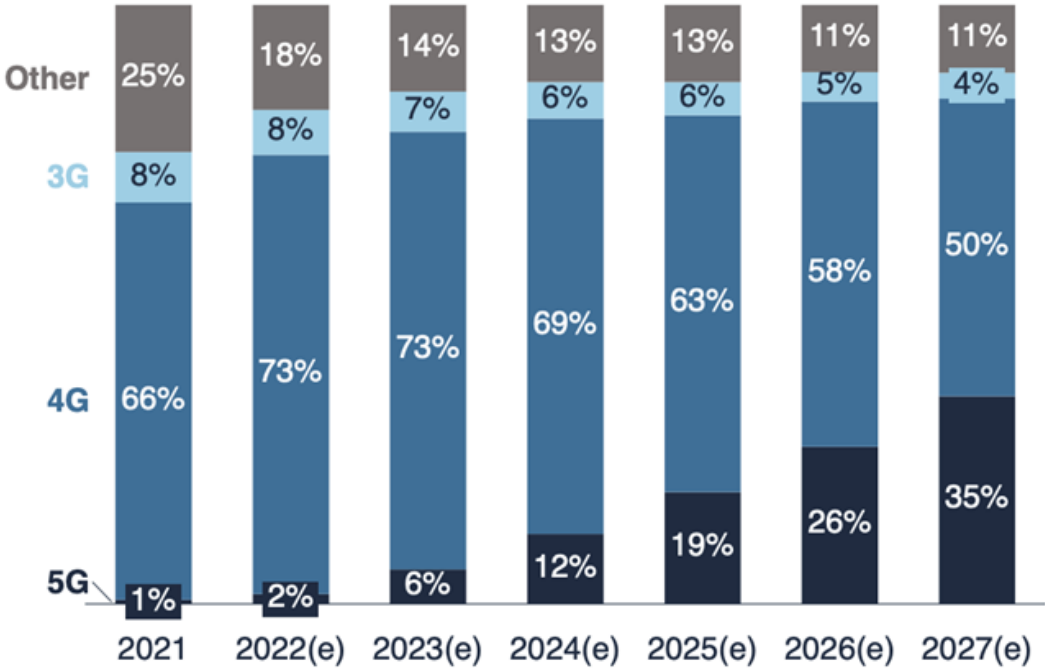
5G IN LATIN AMERICA WILL SERVE 35% OF SUBSCRIBERS, UNLEASHING FURTHER DIGITAL TRANSFORMATION

5G has increasing relevance today to allow for digital transformation. Up to 10 times faster than 4G, 5G provides greater network security to enable the adoption of novel applications, e.g., the internet of things (IoT), AR, and VR. It also has significant social value by enhancing health systems and infrastructure.

Subscriptions by network type by region, 2021*
% of total subscriptions



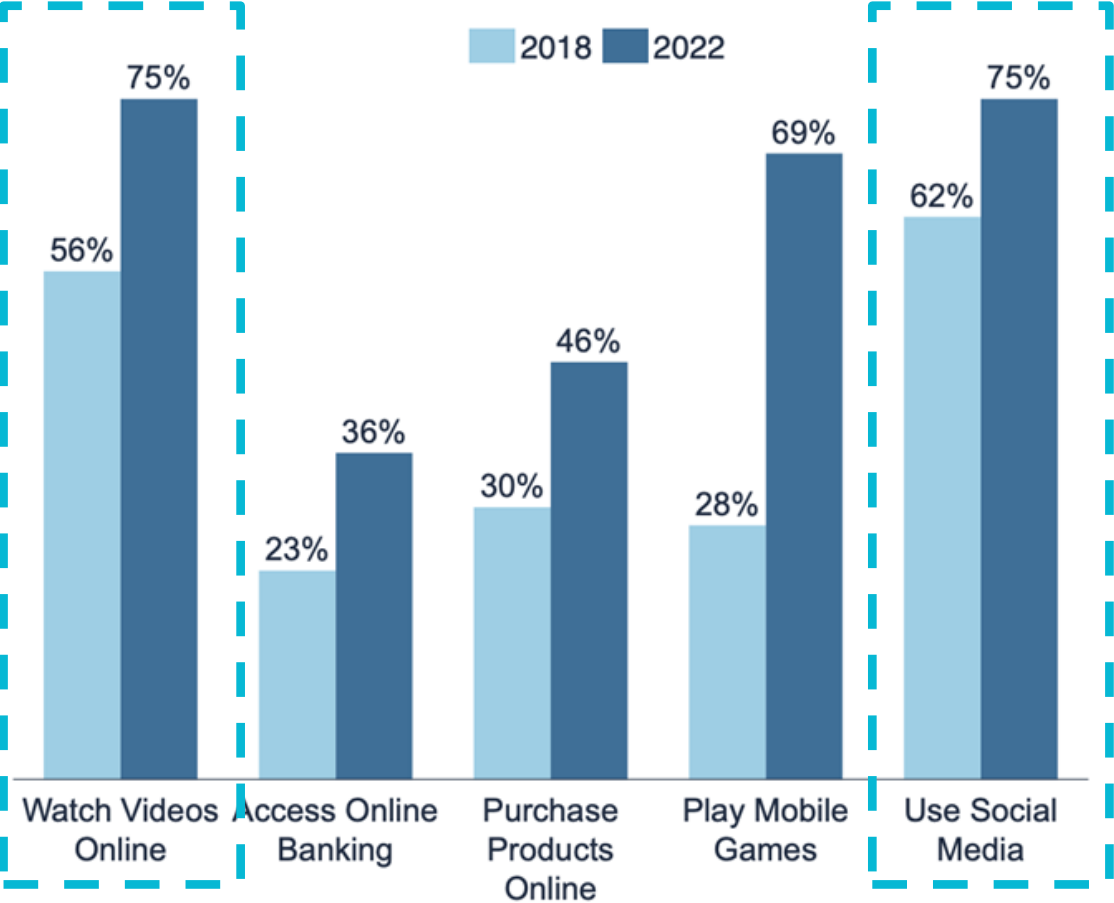
Subscriptions by network type, Latin America
% of total subscriptions



Note: (*) Subscriptions refers to lines
Source: Ericsson

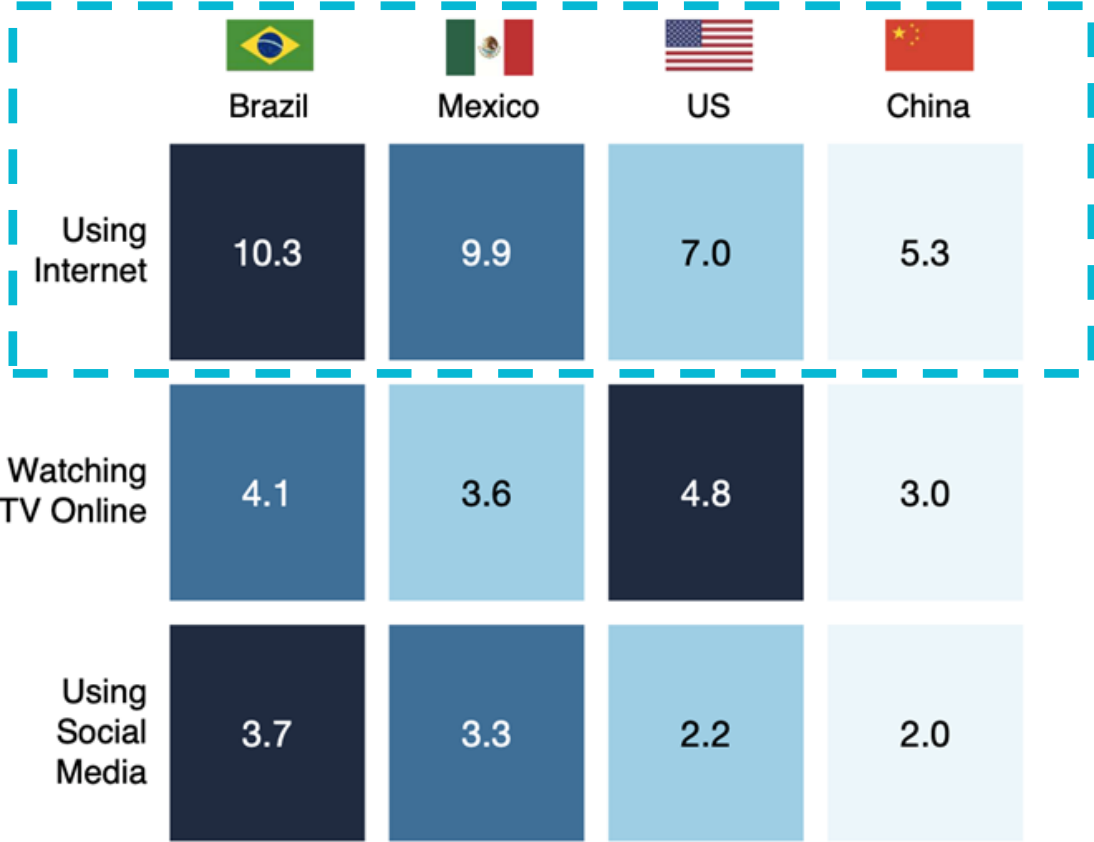
DIGITAL ADOPTION HAS TRANSFORMED THE DAILY LIVES OF THE AMERICAN POPULATION.

Percentage of Brazilians who...
% of survey respondents



Source: We Are Social

Time spent daily by activity by country
Number of hours

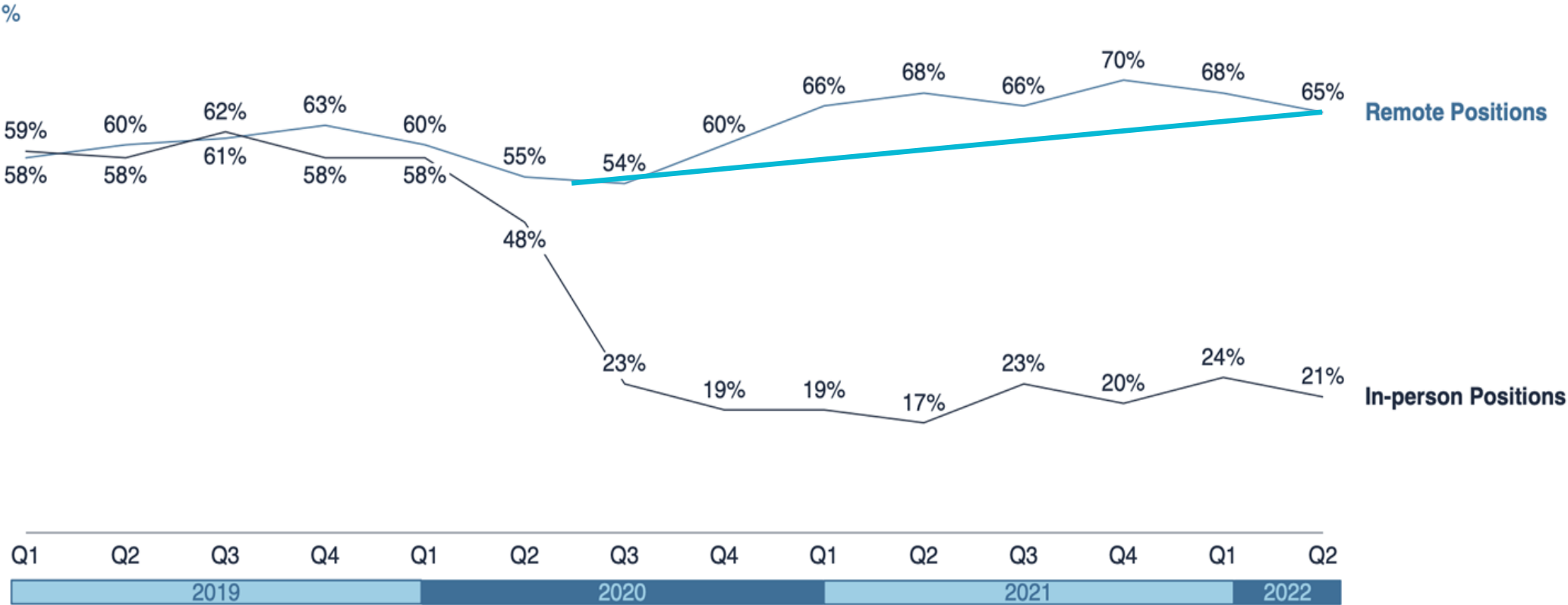


NO TURNING BACK: SOFTWARE DEVELOPERS HAVE JOINED REMOTE WORK



Revelo is an American platform for selecting and hiring tech talent from Latin America

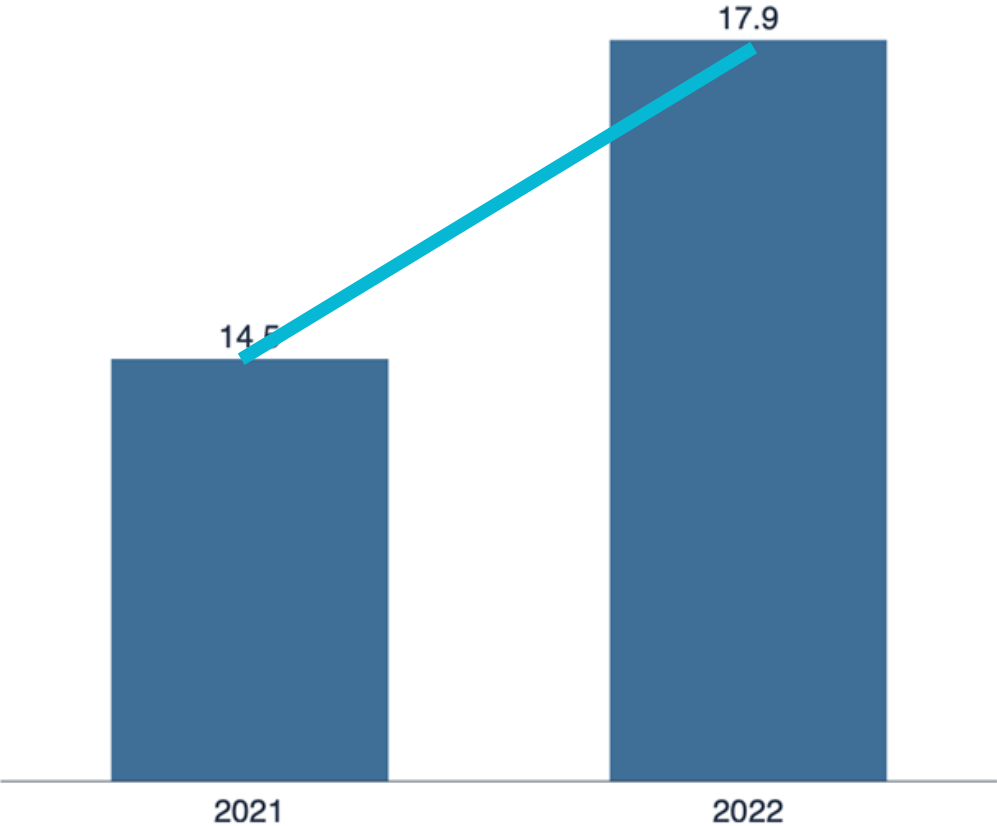
Software developer job interview acceptance rate by remote vs. in-person job position, Brazil



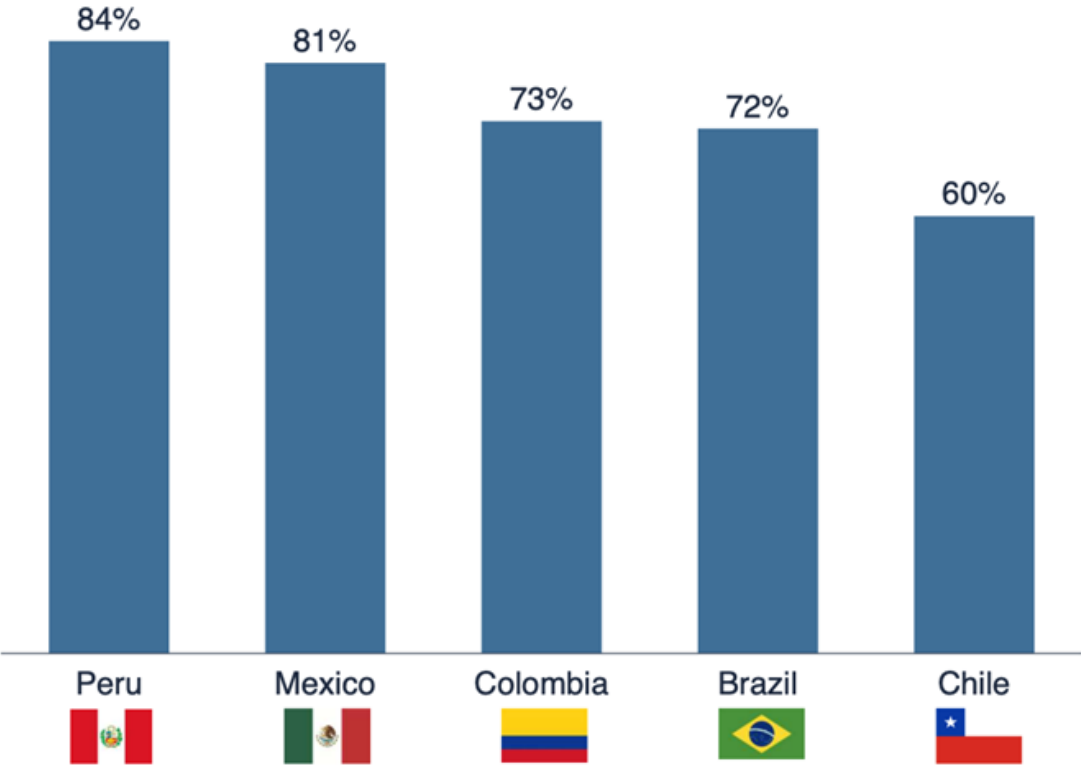
Source: Revelo internal data (n = 124,000 software developers)

DIGITAL TRANSFORMATION IN LATIN AMERICA IS RAPIDLY GAINING TRACTION IN TRADITIONAL SECTORS.

Coursera learners in Latin America¹
Millions

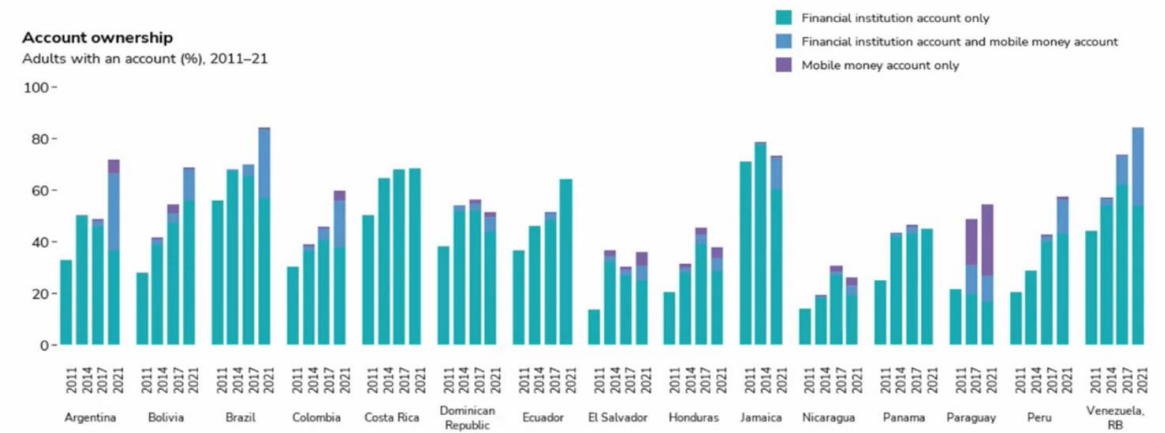


Percentage of doctors offering telehealth by country, 2021²
%



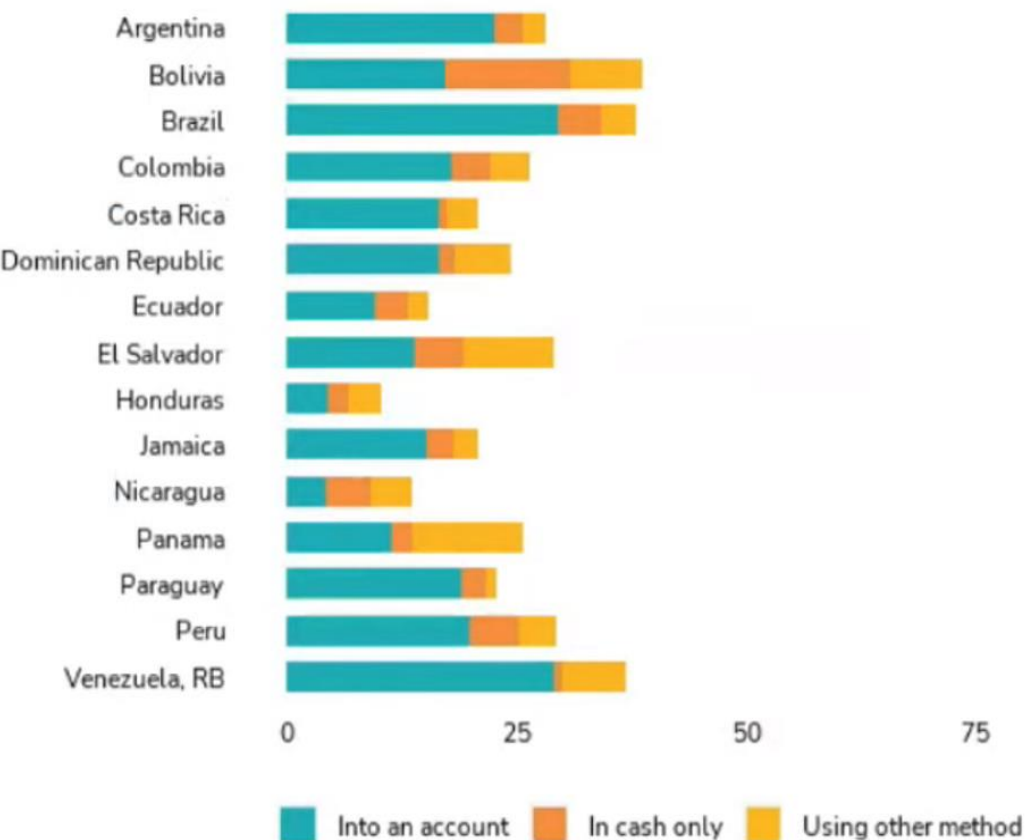
Source: (1) Coursera "Global Skills Report" (2021 and 2022); (2) McKinsey & Company "How Latin American physicians view the future of healthcare" (2021)

PAYMENTS, INCLUDING DIGITAL WALLETS, WERE CENTRAL TO THE FINTECH BOOM AND CONTINUE TO GROW.



G2P payments

Adults receiving government payments in the past year (%), 2021

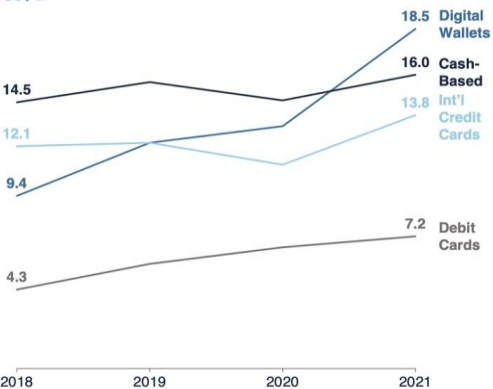


Source: Global Findex Database 2021.

Findex 2021

WORLD BANK GROUP

E-commerce means of payments in Brazil⁽¹⁾ US\$ B



Mercado Pago wallet payers & digital account TPV⁽²⁾ Payers in MM and total payment volume in US\$ B



Note: (1) Excluding domestic credit cards, bank transfers, and other forms of payment
Source: (1) EBANX, "Beyond Borders" (2022); (2) Mercado Libre Fourth Quarter 2021 Results Investor Presentation (2021)

THE PIRANHA ATTACK



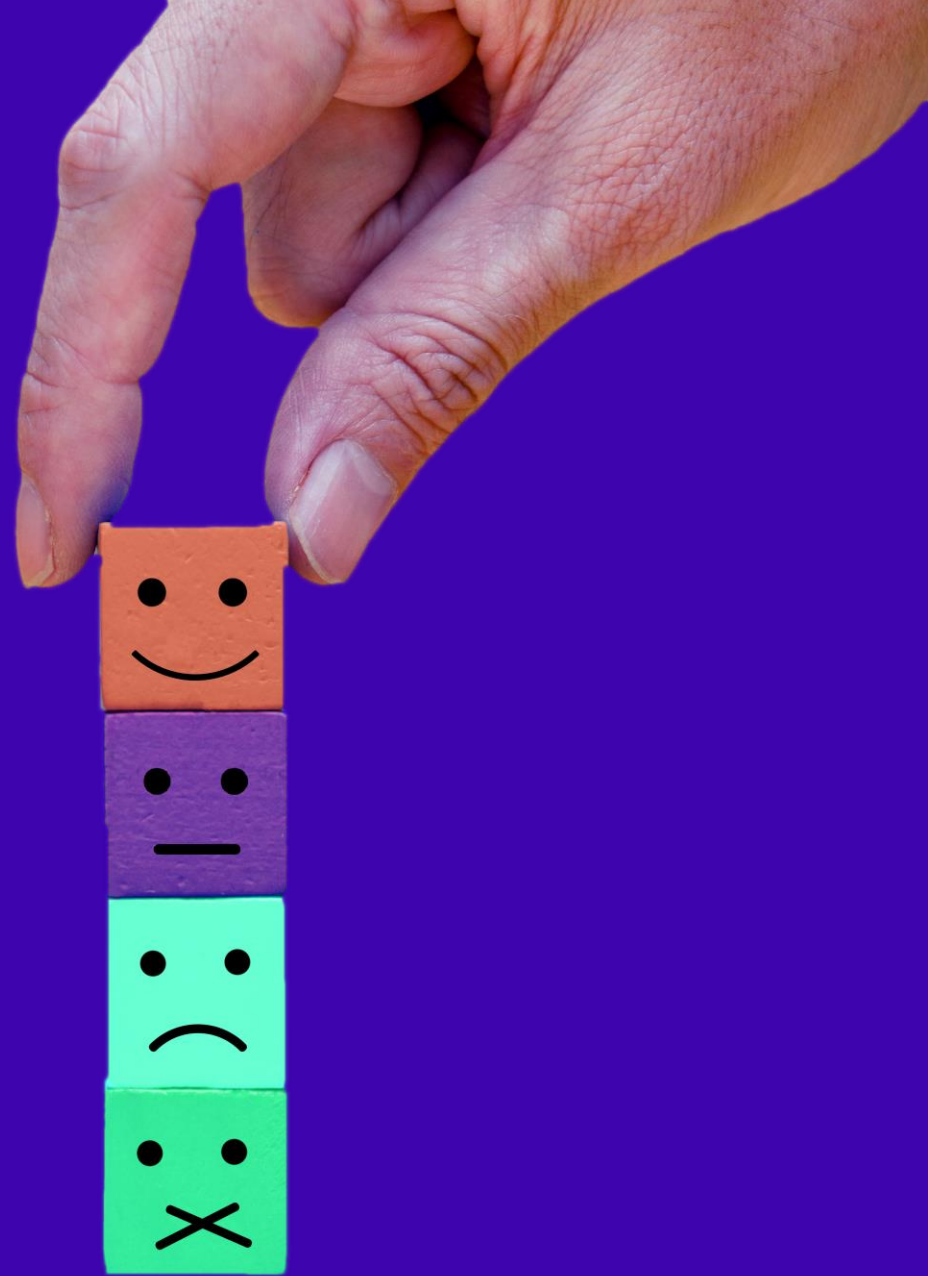
V.U.C.A.

Volatility

Uncertainty

Complexity

Ambiguity



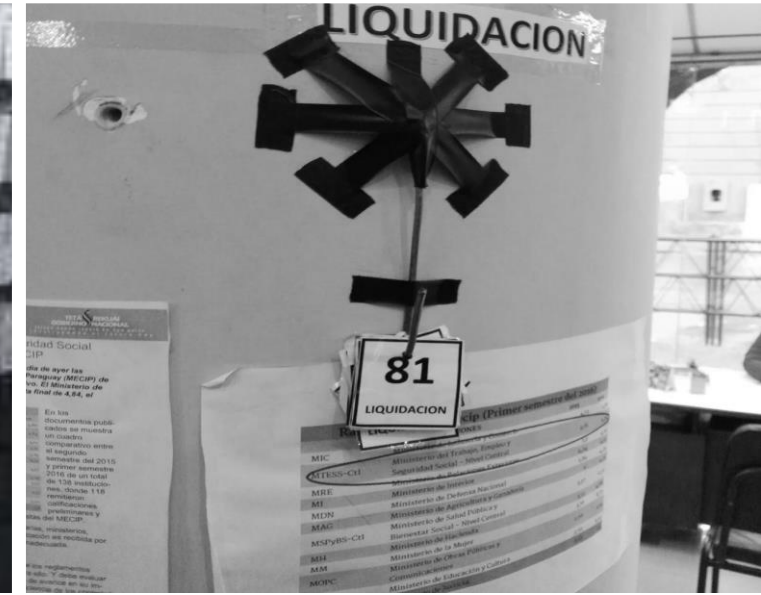


Mercados Laborales del Futuro

Tecnologías de la 4ta. Revolución Industrial para mejorar el empleo y el trabajo

PUBLIC EMPLOYMENT SERVICES NEED TO EVOLVE

SÓLO EL 30% REALIZA TRÁMITES ONLINE



Why do services in Ministries of Labor and especially Public Employment Services need to evolve?

- Smarter match-ups are needed.
- Digital access needs to be accessible.
- Improved labor market information is needed.
- Roles and rows need to be eliminated.
- Active employment programs need to be better targeted.
- The systems must interoperate with other state systems.

**¿Son digitales
nuestros usuarios?**



NIVELES DE ADOPCIÓN DIGITAL DEL USUARIO y canales para cada nivel

Nivel de adopción digital

Usuario Digital

Usa Acceso para generar valor

CANALES



Aplicación Móvil
Sitio web del SPE – autogestión
Sitio web de intermediadores privados
Web Scraping – Digitalización de newsletters
Campaign Manager

Usuario con acceso

Usa Acceso para redes sociales



Kiosco de auto-atendimiento en oficinas del SPE
Contact Center (*) para atención de Buscadores de empleo
Contact Center para concertador de SPE
(*) IVR, teléfono, whatsapp, redes sociales
Mail

Usuario sin acceso

Sin acceso a internet o smartphones



Oficinas del SPE
Agencias o proveedores de intermediación laboral
Oficinas de centros de capacitación laboral

DIGITAL TRANSFORMATION OF LABOR MINISTRIES



ENTERPRISE ARCHITECTURE ENABLES AND DRIVES DIGITAL TRANSFORMATION



1

WHAT MAKES A DIGITAL STRATEGY SUCCESSFUL?

Signs of a **good** digital strategy

- Integrated
- User-centric
- Useful for the teams
- Conventional
- Realistic
- Well-focused

Signs of a **bad** digital strategy

- Powered by IT
- Focuses on technology that has not yet been proven
- Not accurate
- Very long-term planning
- Reads like a wish list

2

DECIDING ON THE TECHNOLOGICAL APPROACH

The use of technology must achieve clear results.

Prioritize shutting down what is no longer useful

Ensure that each tool has a team.

Develop or buy?

Lack of in-house skills is often the number one reason why purchasing decisions are made. However, this lack of skills can also prevent you from being a smart customer for technology services.

When to develop?

- When there is a high level of uncertainty around user needs.
- When specific solutions are needed.
- In the event of few market suppliers: risk of lock-in.
- When there are internal development capabilities.

When to buy?

- When the needs are far below what the market already offers in platforms.
- When products are highly commoditized with low variability.
- When there is a dynamic market: it is easier to change supplier.

3

MAKING DECISIONS AND TAKING ACTIONS

Digital strategy should not be an all-encompassing plan

However, this strategy is an excellent place to show what will be prioritized.

What decisions have already been made?

Main ongoing programs

Existing funding commitments

Organizational, policy and regulatory changes

Past commitments - Existing contracts

The process of choosing priorities can be as important as the outcome.

Tangibles

Measurables

Focused on results

Realistic

Time-limited

MAIN ISSUES IDENTIFIED IN THE SPE

SPE Operation

- Insufficient regulation
- Diffuse provision of services
- Business management has significant room for improvement.
- Low standardization of processes
- Absence of government in the regional offices of the SPE.
- Incipient digital document management processes.
- Low adoption of state capabilities (digital identity, interoperability)

Governance and IT strategy

- Measurement of the quality of IT services.
- Backup and disaster recovery policies.
- Projects that include IT components are disconnected from the user areas.

Business intelligence and data management

- Capacity to generate timely and reliable information.
- The information is controlled by each area.
- Most of the analysis and control of the operation is performed in Excel.

MAIN ISSUES IDENTIFIED IN THE SPE

IT Best Practices

- There is no strategy for reusing components to meet similar needs.
- Lack of integration between applications.
- Lack of standard development methodology.
- Lack of personnel and tools for testing and monitoring the life cycle of applications.
- The IT function does not implement leading practices, IT processes must be built.

IT staff users

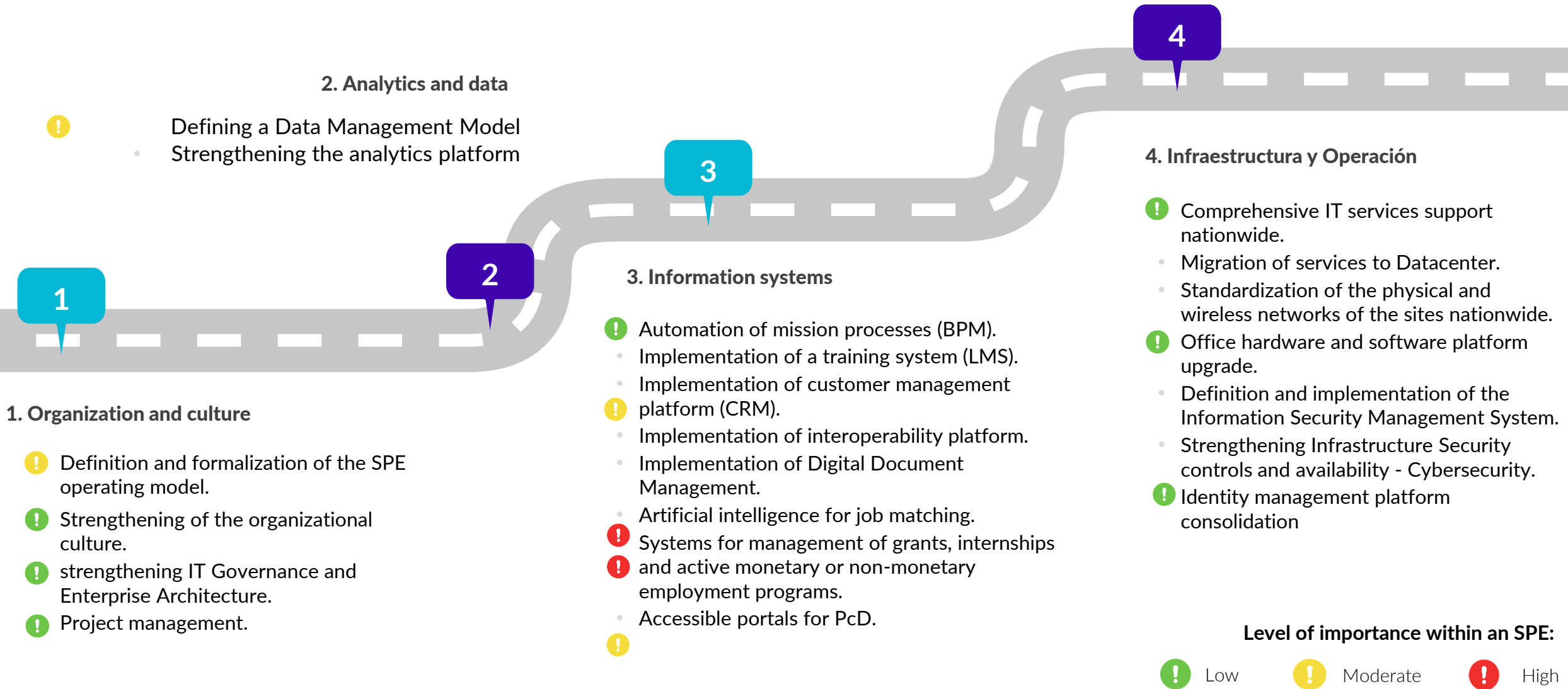
- Obsolete technological infrastructure.
- The applications do not have internal or third-party support facilities.
- Frequent unavailability of online services

Customers

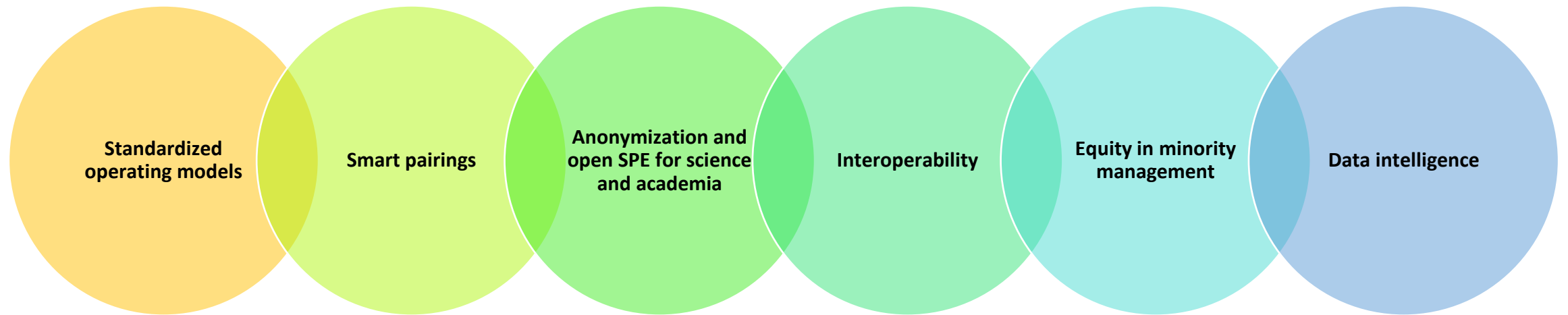
- In general, there is no established customer service.
- Omni-channel and apps, service delivery through different channels.
- Lack of customer self-management portals.

MAJOR MILESTONES IN THE SPE ROADMAP

Note: These "milestones" are based exclusively on the study of the countries analyzed by the consulting firm and other experience of the consultants in the region.



OUTSTANDING SPE ISSUES IN THE REGION



56%

94.4%

30X



**“All that glitters is
not gold”**

fAIr LAC Objectives

1. Safety and data protection

2. Transparency, explainability and accountability

3. Human-centered AI

4. Prepared and inclusive region



Biases – Equity and justice



Historical biases



Representational biases



Measurement biases



Data evaluation

The background is a dark blue gradient. On the left, a hand is shown from the wrist up, palm facing forward, with fingers slightly spread. In the center-right background, a person's face is visible but heavily blurred, looking towards the camera. The word "Accountability" is written in white, bold, sans-serif font, centered horizontally and partially overlapping the hand and the blurred face.

Accountability



Algorithmic transparency

A faint, stylized illustration of a hand with fingers spread, reaching upwards from the bottom left towards the word 'Explainability'.

Explainability



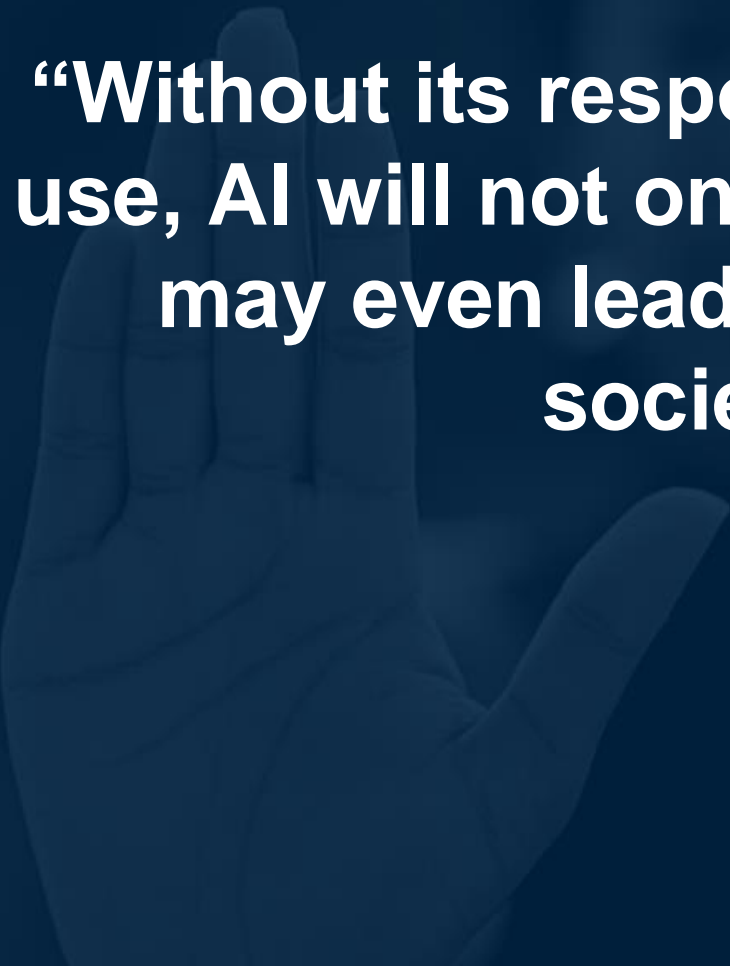
Implied liability



Personal data



Technical challenges



“Without its responsible and ethical use, AI will not only not improve, but may even lead to more unjust societies.”

fAIr LAC

Quality and risk
mitigation

Responsible
adoption

Diverse
network



PUBLIC AXIS



ENTREPRENEURIAL AXIS

Quality and risk mitigation



fAIr LAC a la mano

Cinco herramientas que esperamos se conviertan en sus aliados en la aplicación de los **principios éticos de la inteligencia artificial** en todas las fases del proyecto

[Ver Video](#)

[Resumen](#)



fAIr LAC at hand





Example

Collaboration with Peru's MEP

Lessons learned

1

AI is more than just a
technology

2

The goals of AI
should be the goals
of society

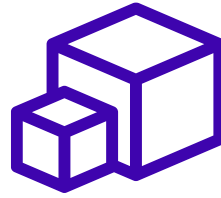
3

We need a regulatory
system to guide its
responsible
development.

INTERMEDIARY PLATFORMS



**Data quality is hard
work**



**One size does not fit
all**



**Labor policies change
all the time**

ACCESSIBLE AND INCLUSIVE PLATFORMS

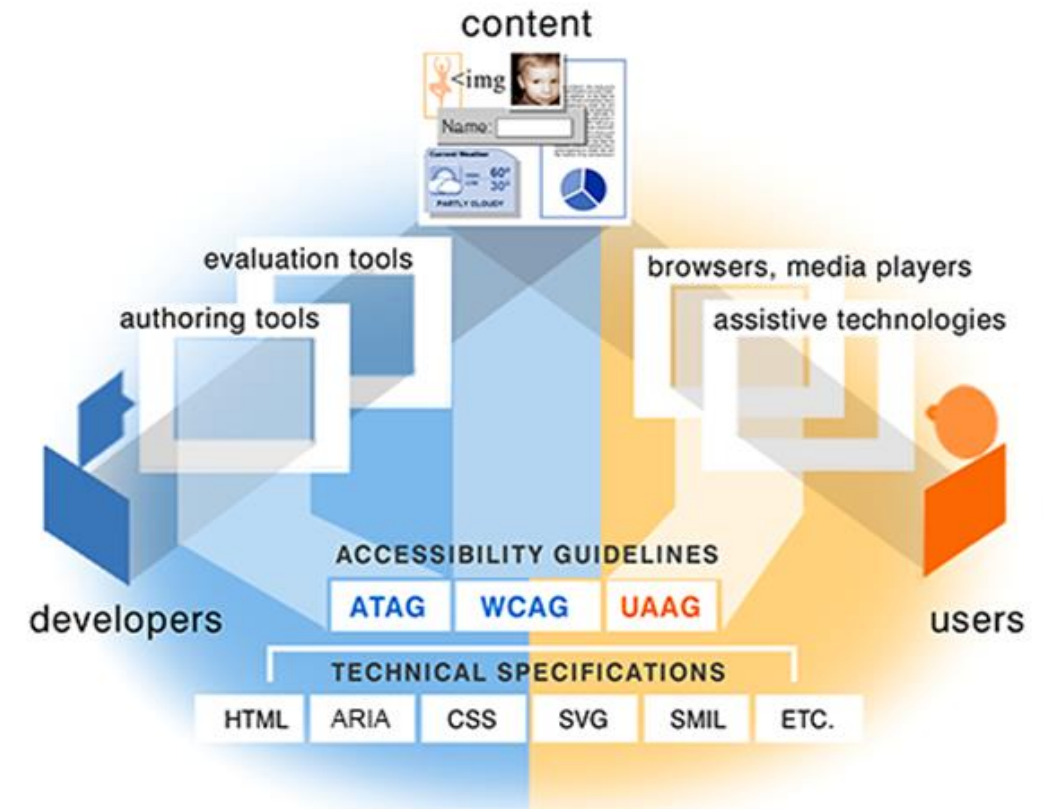
Develop software and platforms where everyone can:

- Perceive, understand, navigate and interact with the Platform..
- Contribute to the Platform.

The **W3C Web Accessibility Initiative (WAI)** provides a set of guidelines that are internationally recognized as standards for web accessibility.

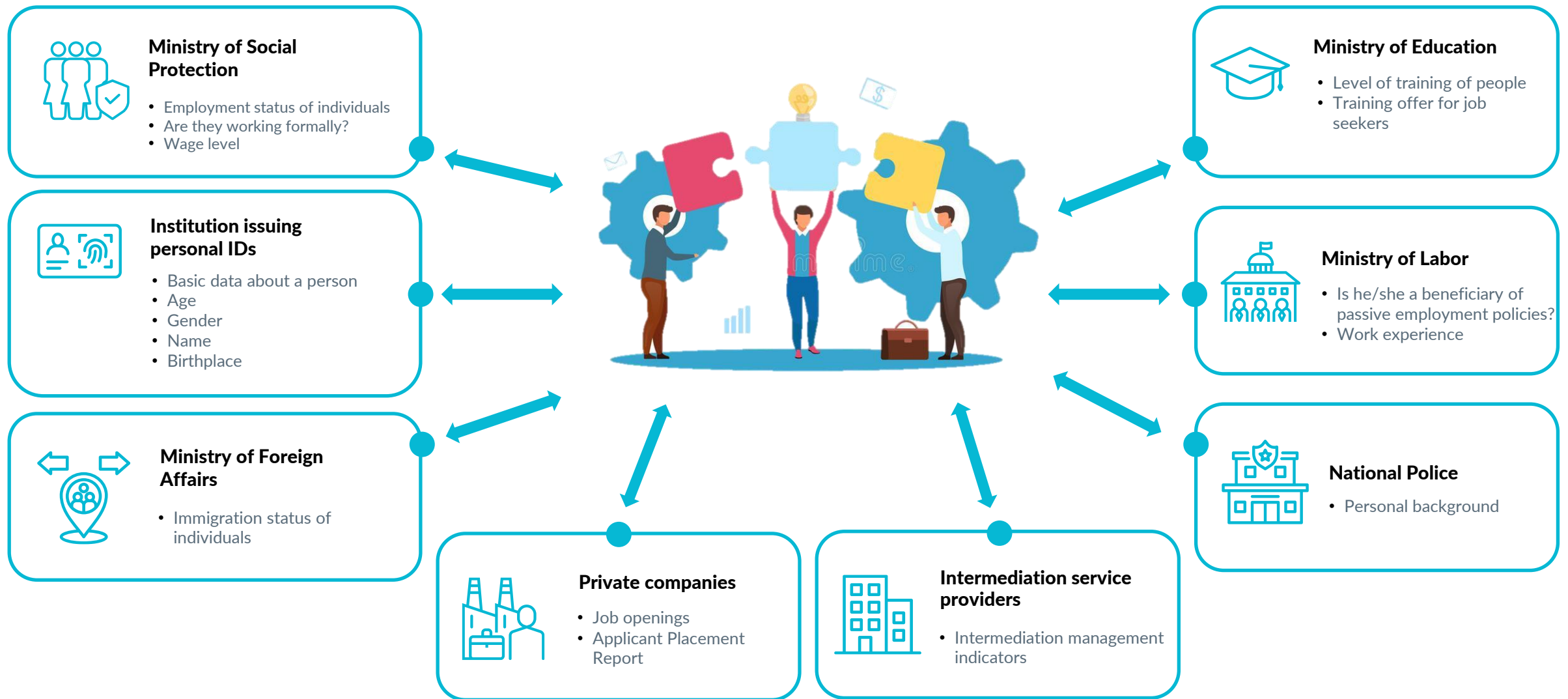
These include:

- [Web Content Accessibility Guidelines \(WCAG\)](#)
- [User Agent Accessibility Guidelines \(UAAG\)](#)
- [Authoring Tools Accessibility Guidelines \(ATAG\)](#)



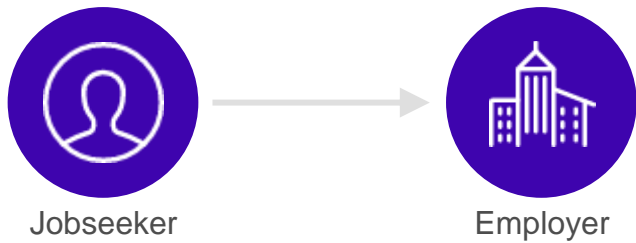
INTEROPERABILITY

Some of the critical institutions with which a SPE should be connected are



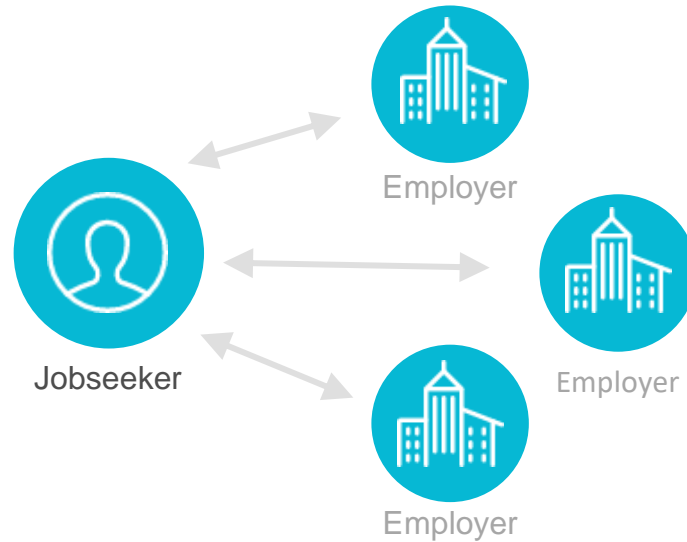
VALUE MATCHING

Searching



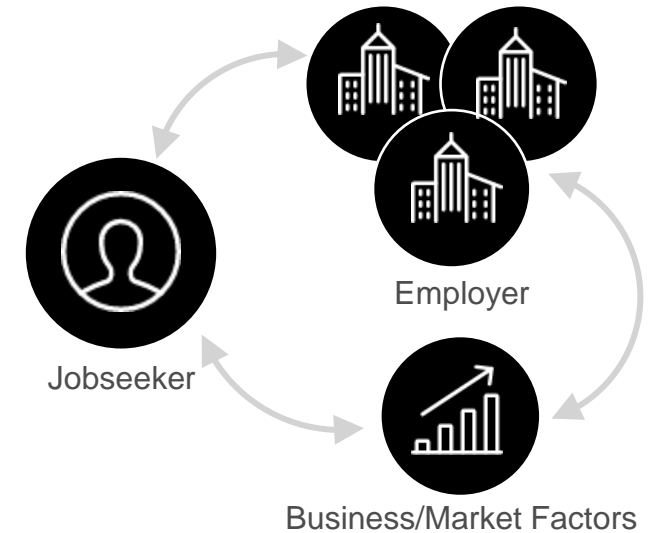
Unilateral evaluation
Undifferentiated results

Matching



Bi-directional scoring
Ranked results

Value Based Matching



3-dimensional scoring
Optimized, ranked results



Private Employment Services

- For-profit staffing (job seeker and/or employer pays for services).
- Focused on hard-to-fill jobs (higher margin per transaction).
- The employer and the job opening are the primary focus (since they often pay).
- Primarily for job seekers with little or no distance to the labor market.

Public Employment Services

- Not-for-profit: all users receive the same support.
- More relevant and complete data on job seekers and employers is available.
- Specific target groups, customized services, counselor support.
- Primary focus on improving employability through skills enhancement and job creation.
- For job seekers away from the labor market.

LABOR INTELLIGENCE CENTER



Actions and communication

- Generation of interpreted reports
- Relevant actions resulting from the analysis
- Active program results

Data analysis

- Trend analysis, variance analysis, reporting.
- Prospective and preventive analysis
- Generation of pre-established indicators
- Internal performance indicators

Data update

- Data marts or tables for specific purposes
- Dashboards
- Enrichment with other data

Generation and cleaning of data

- ETL (Extraction , Transformation and Loading)
- External data loading
- Data cleansing (Duplications, incomplete, inconsistent data, etc.).



**“Without data
you’re just
another person
with an opinion”**

- W. Edwards Deming, Data Scientist



¿What **HAVE WE**
LEARNED?

IS THIS A THREAT?



TRANSFORMATION ON MULTIPLE LEVELS

**At the
business
model level**

**At the
portfolio
level with
digital vision**

**At the
process level**

**At the
systems level**

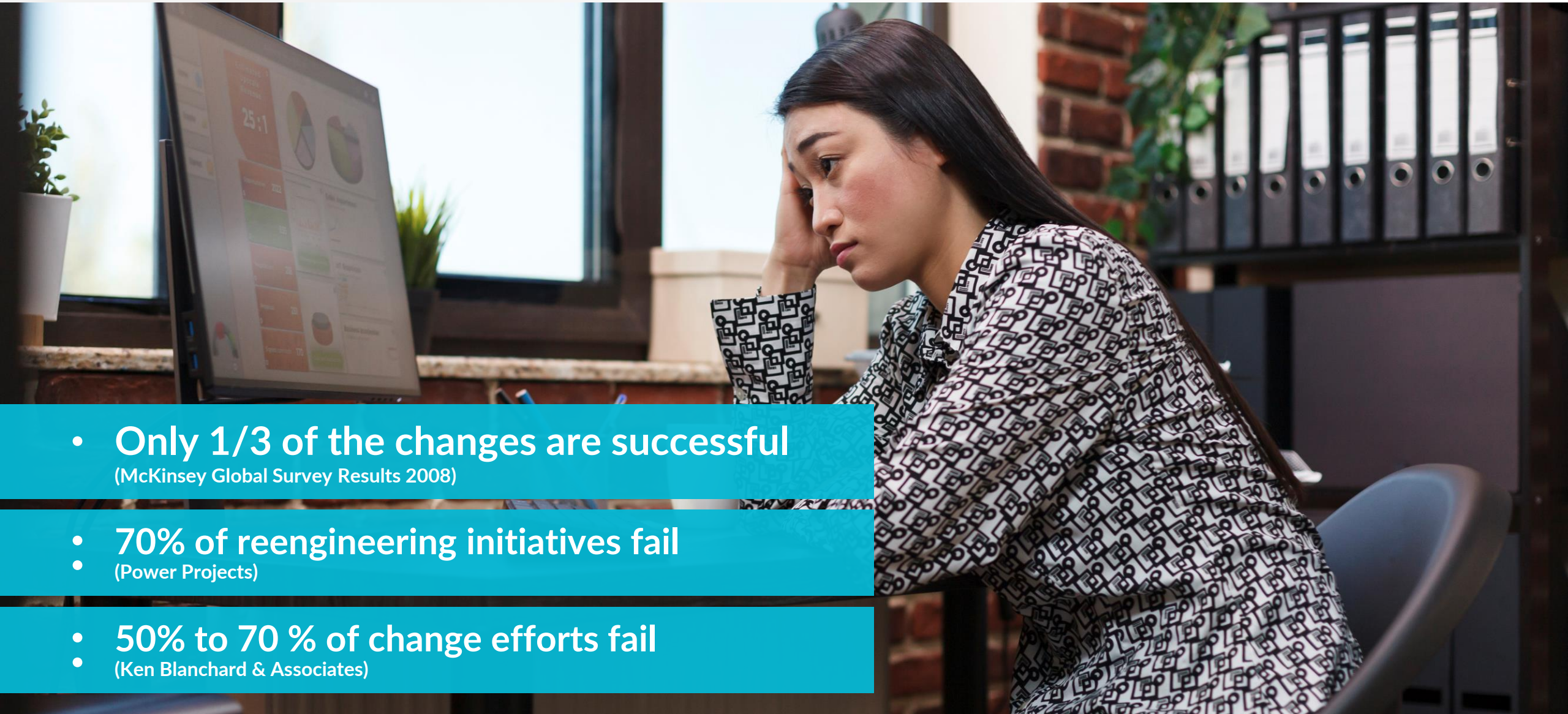
Replacement and
consolidation of
old systems

**At the
individual
level**

HOW DOES IT IMPACT ME?



HOW MANY PROJECTS FAIL?



- **Only 1/3 of the changes are successful**
(McKinsey Global Survey Results 2008)

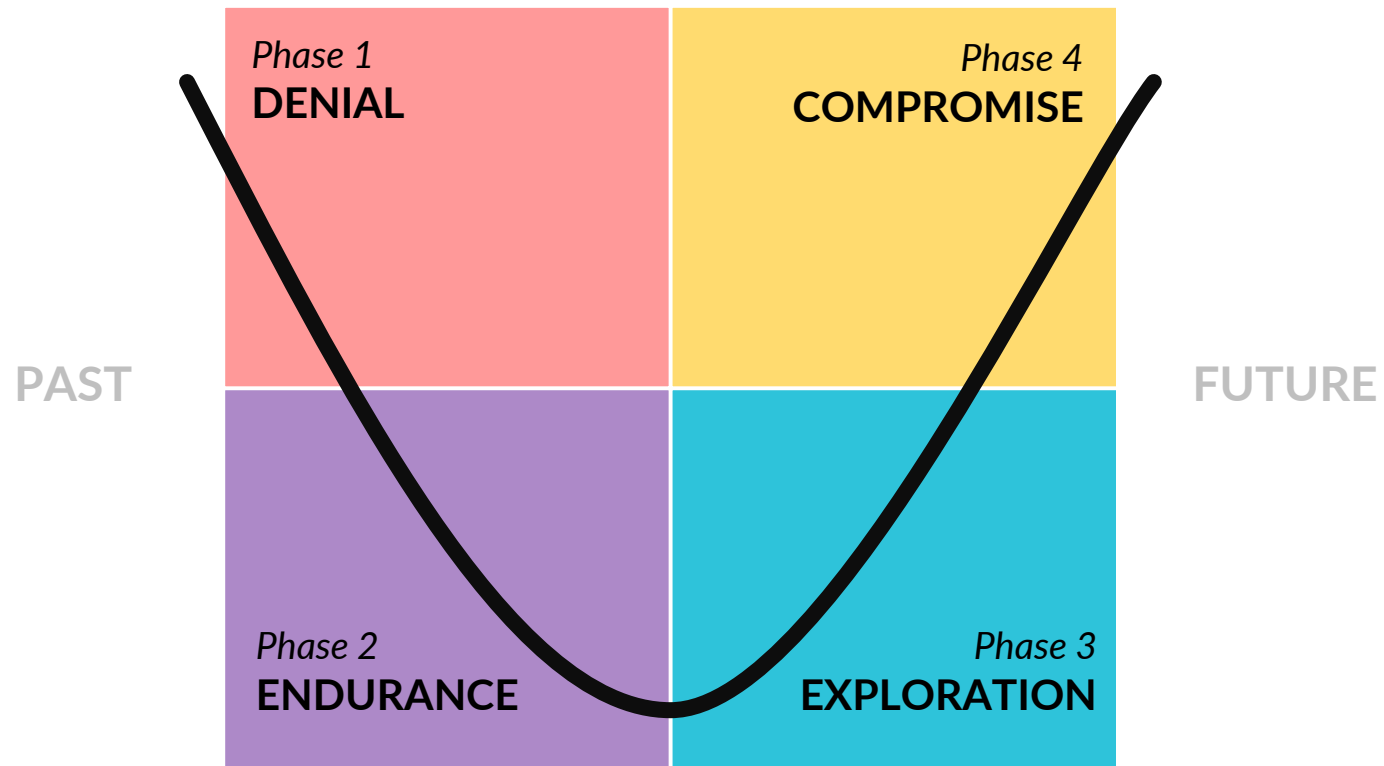
- **70% of reengineering initiatives fail**
(Power Projects)

- **50% to 70 % of change efforts fail**
(Ken Blanchard & Associates)



The number 1 obstacle to the success of large change projects is the people within change management.

TRANSITION CURVE MODEL



Balance is key



Most people are afraid of the future, rather than excited about it.

We fear what we do not know and what we cannot predict.

A digital figure made of binary code (0s and 1s) is the central focus of the image. The figure is composed of a grid of these characters, giving it a pixelated, digital appearance. It is positioned in the center, with its arms slightly away from its body. The background is a dark blue gradient, and the overall image has a high-tech, digital feel. The text is overlaid on a semi-transparent purple band across the middle of the image.

We don't want to digitize
our lives...



**We want to humanize
the digital revolution...**



The best way to create the future is to build it.

