



# GLOBAL DIGITALIZATION IN 10 CHARTS





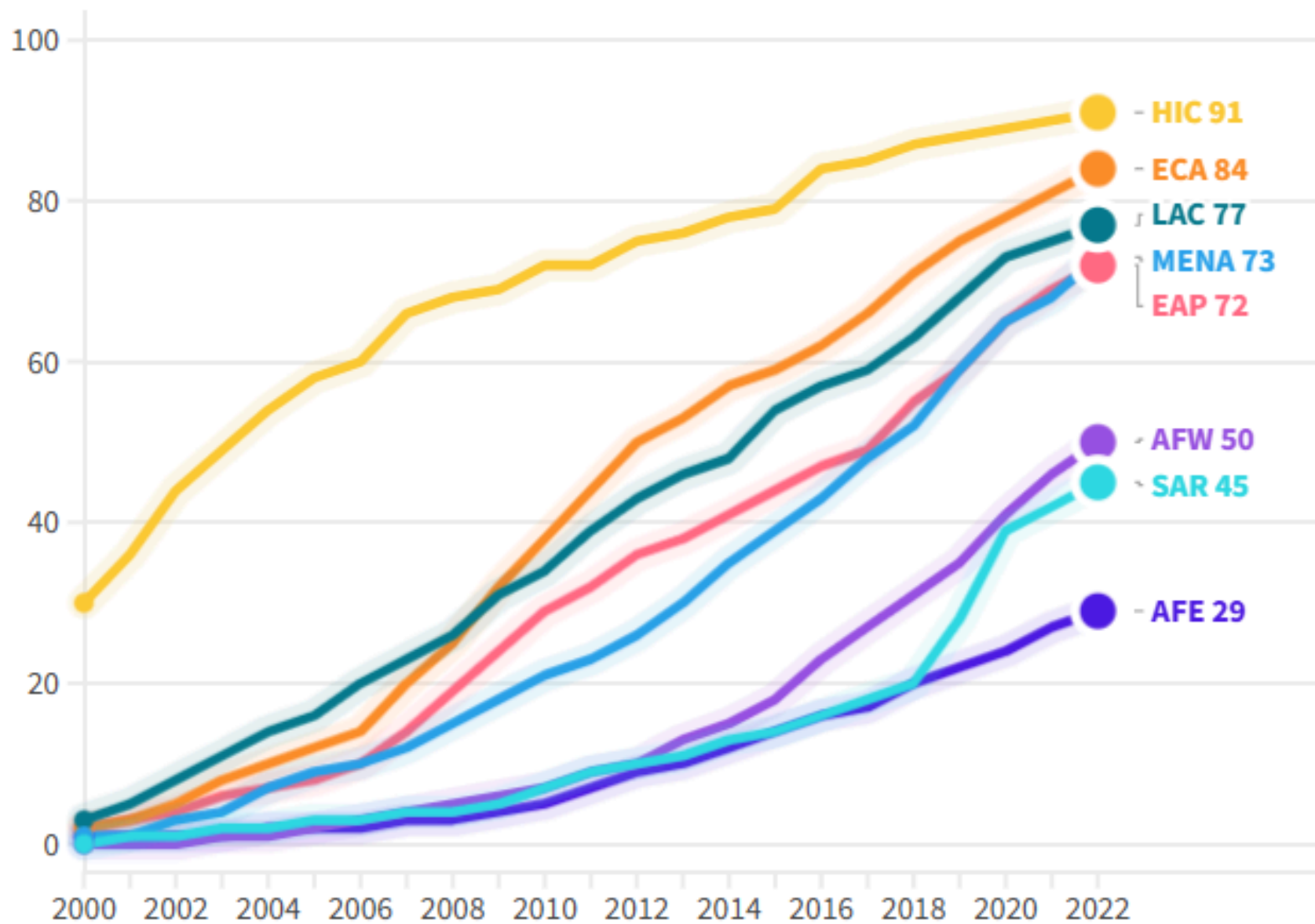
# Internet Usage





## Widening gap in internet usage across regions

% population using the internet



Source: ITU and World Bank calculation



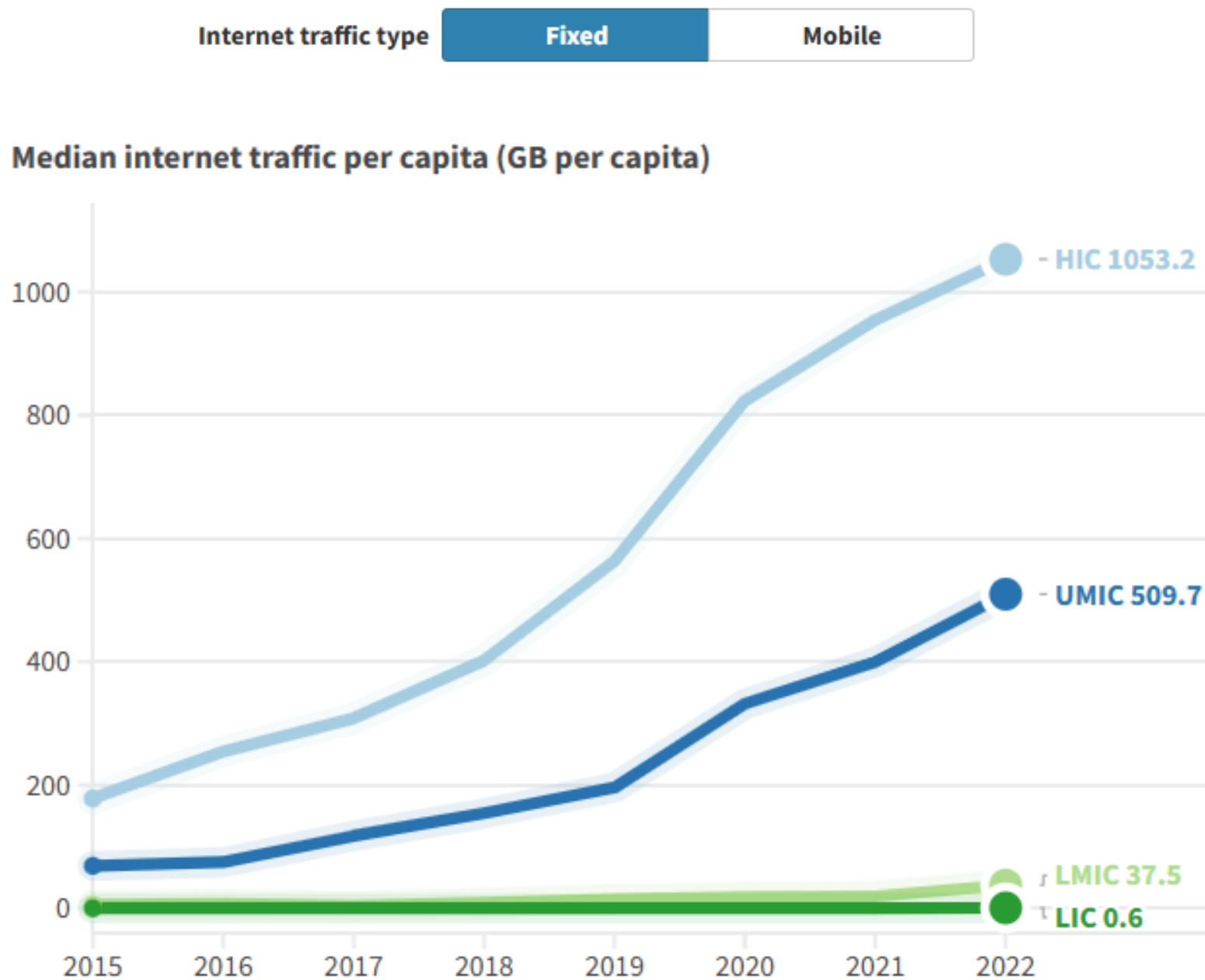


# Data Traffic





## Widening gaps in internet traffic per capita across income groups



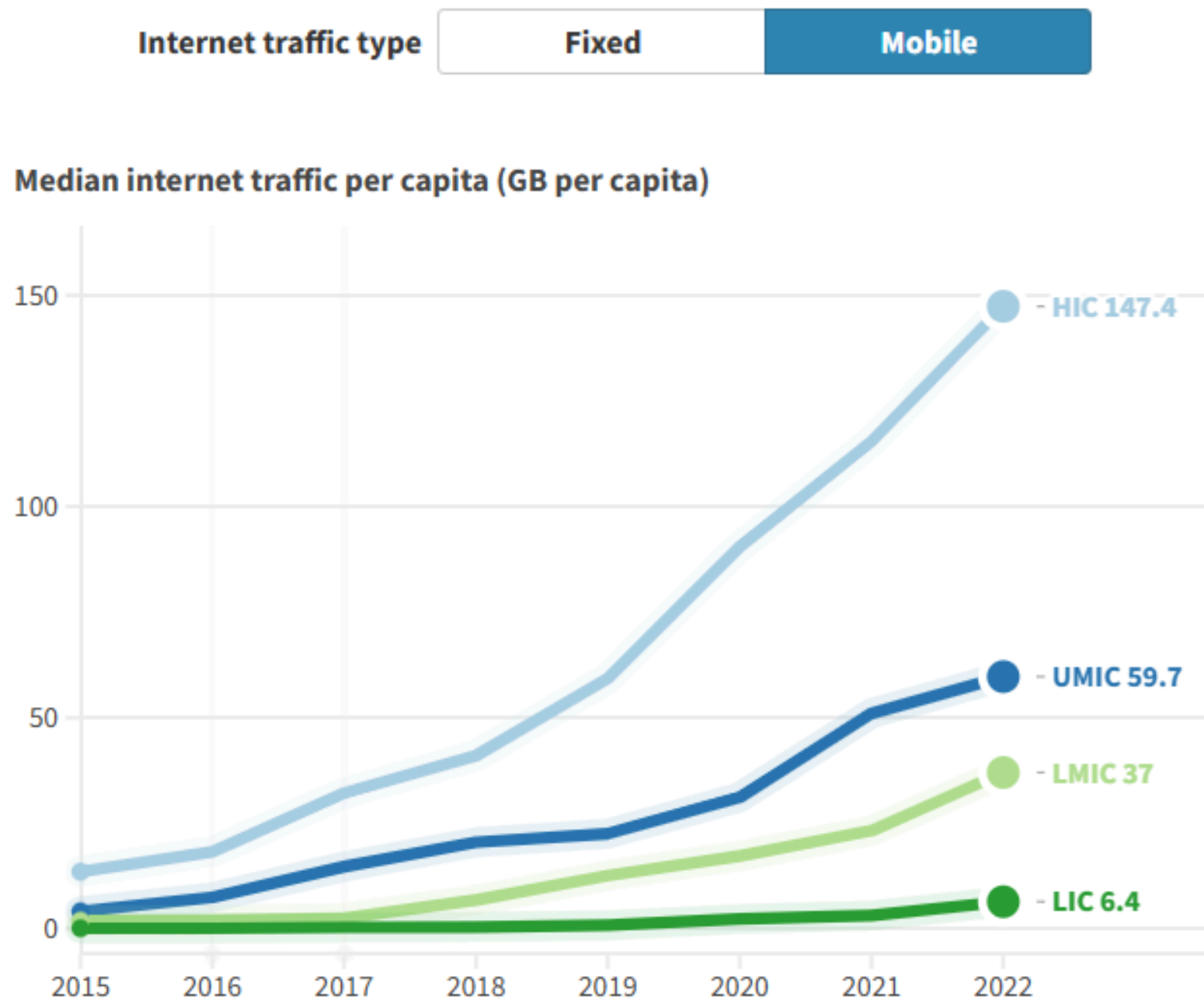
Source: World Bank calculation based on ITU and WDI data

Notes: High Income Countries (HIC), Upper-Middle Income Countries (UMIC), Lower-Middle Income Countries (LMIC), Low Income Countries (LIC).





## Widening gaps in internet traffic per capita across income groups



Source: World Bank calculation based on ITU and WDI data

Notes: High Income Countries (HIC), Upper-Middle Income Countries (UMIC), Lower-Middle Income Countries (LMIC), Low Income Countries (LIC).



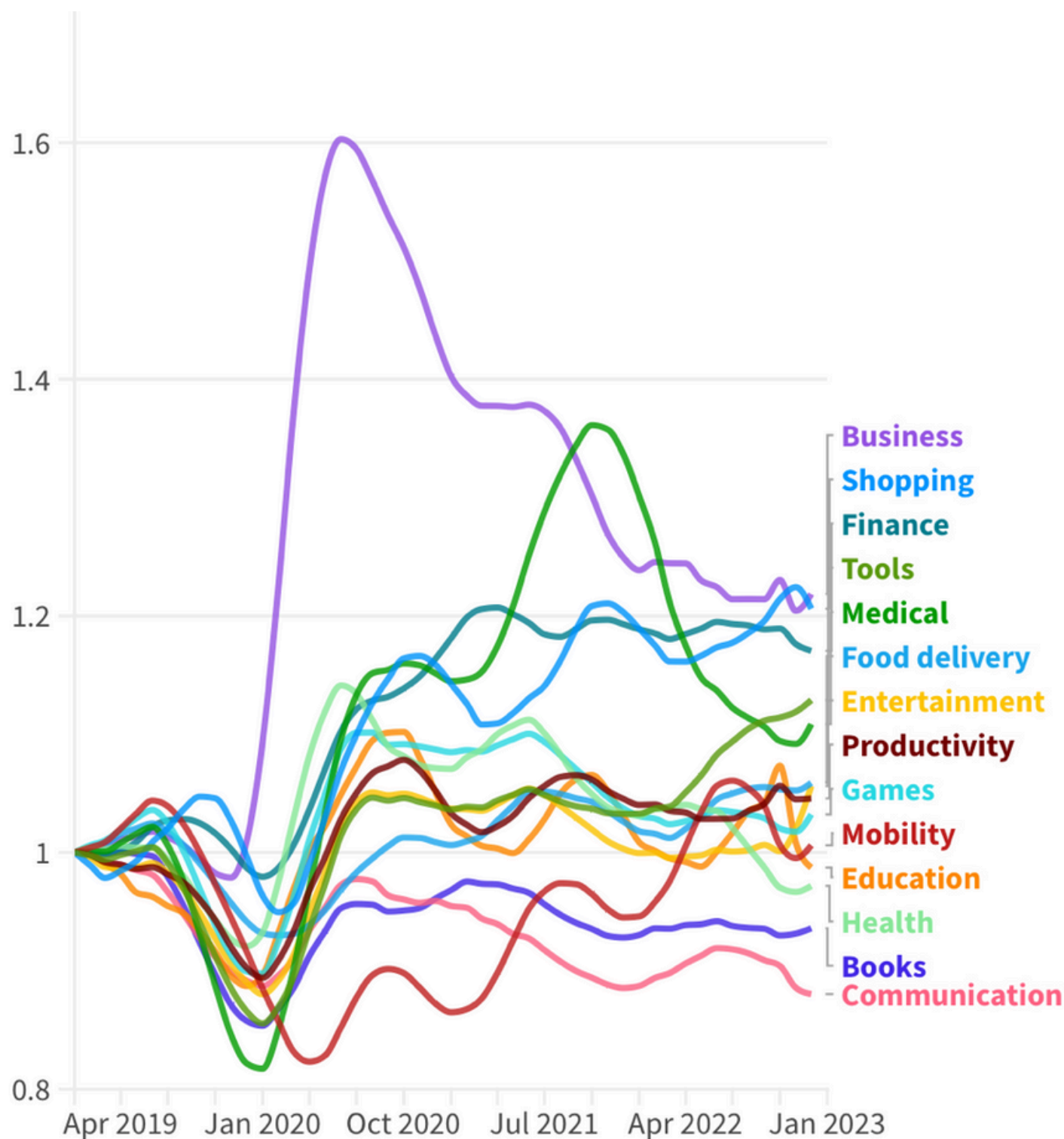


# App Usage





# Global App downloads and time spent by app category, 2019-2022



Source: Original calculations for this publication using Apptopia data for all active apps in Google Play and Apple Store globally. • Note: Values for time spent in January 2019 are normalized to 1, and values are smoothed over six months.





# Business Digitalization



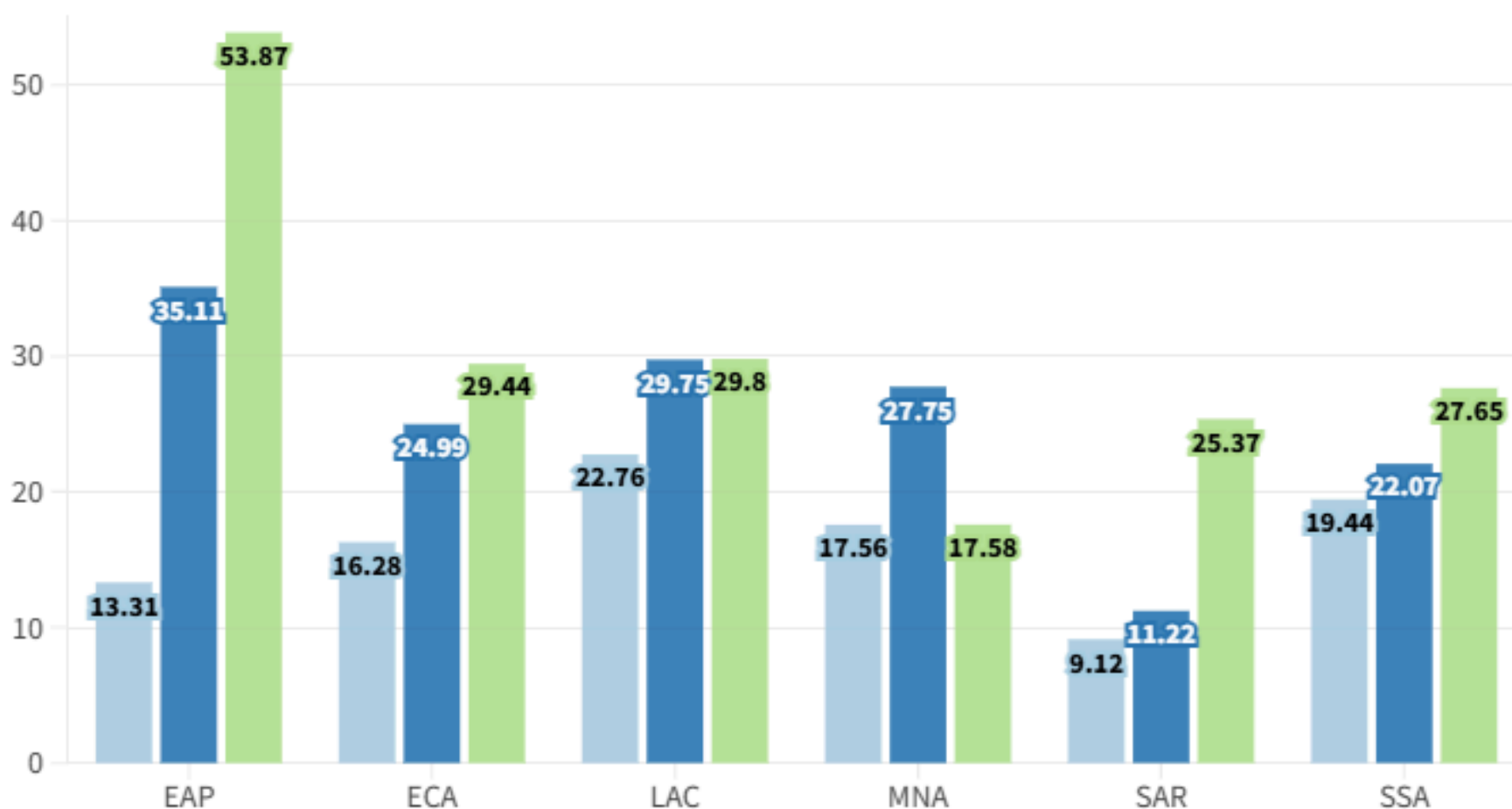


## Share of firms investing in digital solutions quadrupled in EAP

By region ▼

Apr-Aug 2020 Sep 2020-Jun 2021 Jul 2021-Dec 2022

% firms investing in digital solutions



Source: World Bank Business Pulse Survey

Notes: East Asia and Pacific (EAP), Europe and Central Asia (ECA), Latin America and Caribbean (LAC), Middle East and North Africa (MNA), South Asia (SAR), Sub-Saharan Africa (SSA).





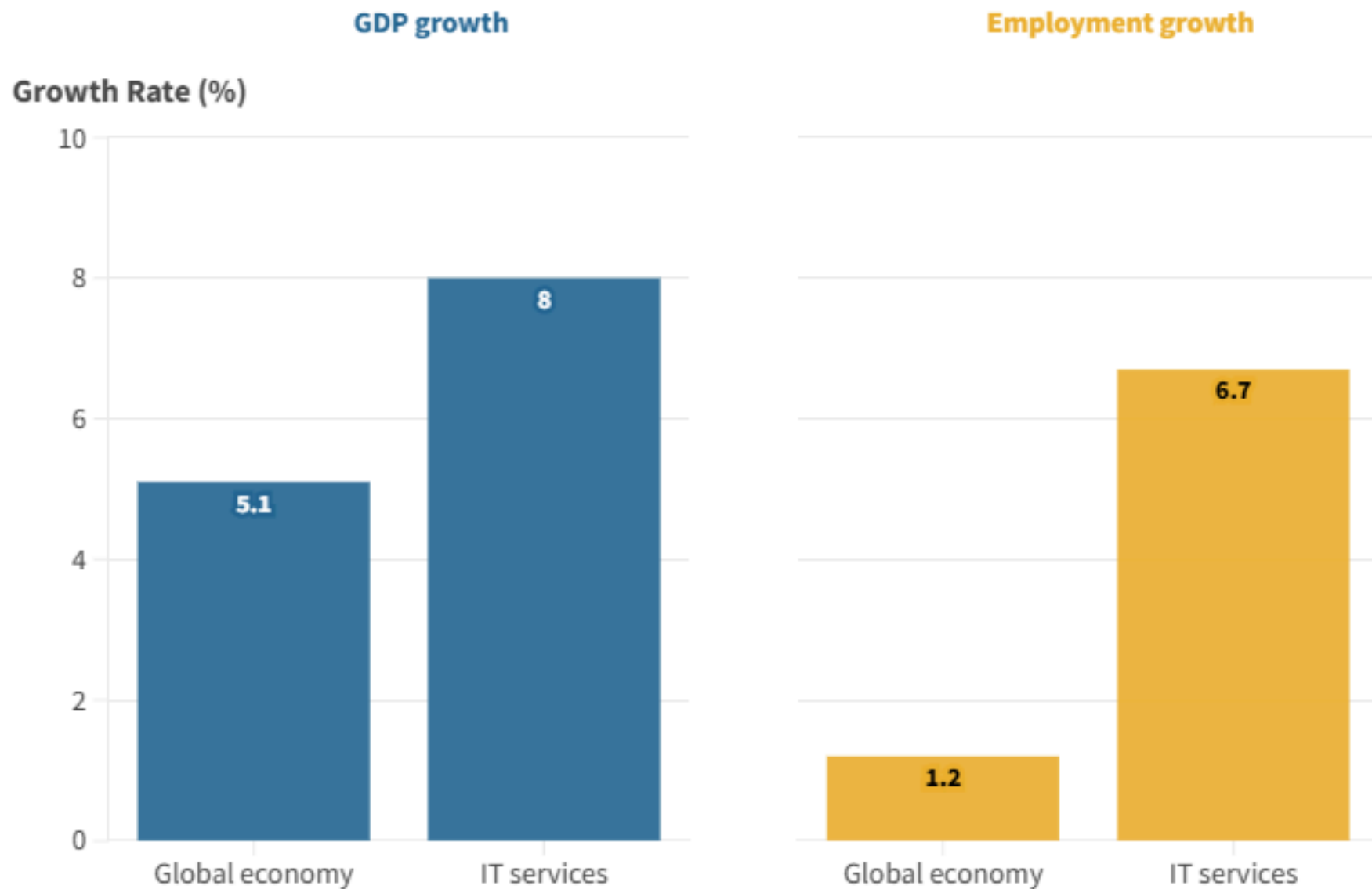
# Digital Services Sector Growth





## IT services sector growing much faster than the global economy

Compound Annual Growth Rate of Value Added and Employment, 2000-2022



Source: Digital Progress and Trends Report 2023





# Digital Services Exports

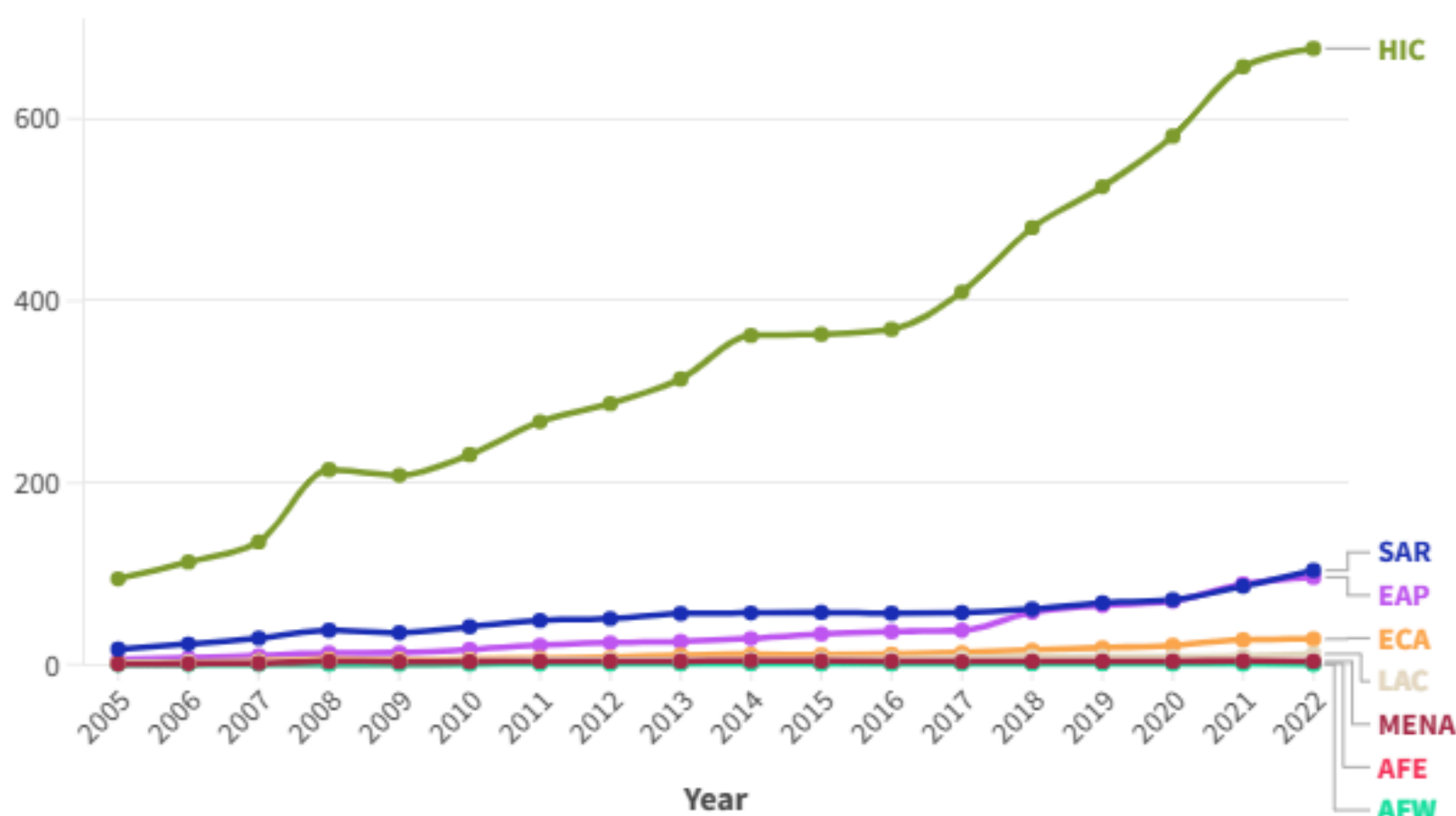




## ICT services exports show high growth in developing countries but still dominated by high-income countries

ICT services export by region, 2005-2022

Select indicator Export value (USD billion) ▼



Source: WTO

Notes: High Income Countries (HIC), South Asia (SAR), East Asia and Pacific (EAP), Europe and Central Asia (ECA), Latin America and Caribbean (LAC), Middle East and North Africa (MENA), Africa East (AFE), Africa West (AFW).







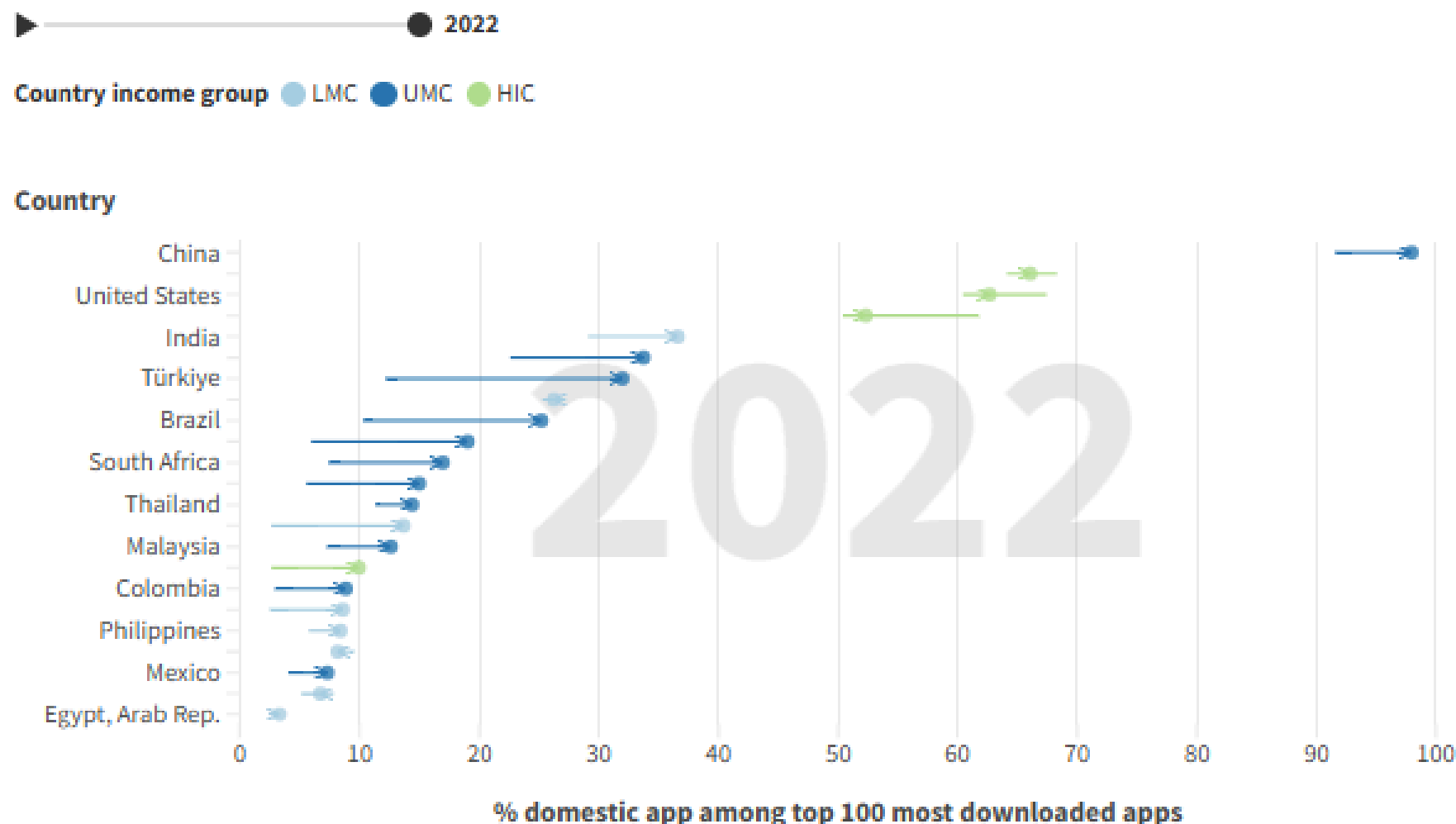
# Local Digital Firms





## Local apps are becoming more popular in most economies

### Share of domestic apps among top 100 most download apps



Source: World Bank calculation based on Apptopia data • Data for additional countries can be found in the report



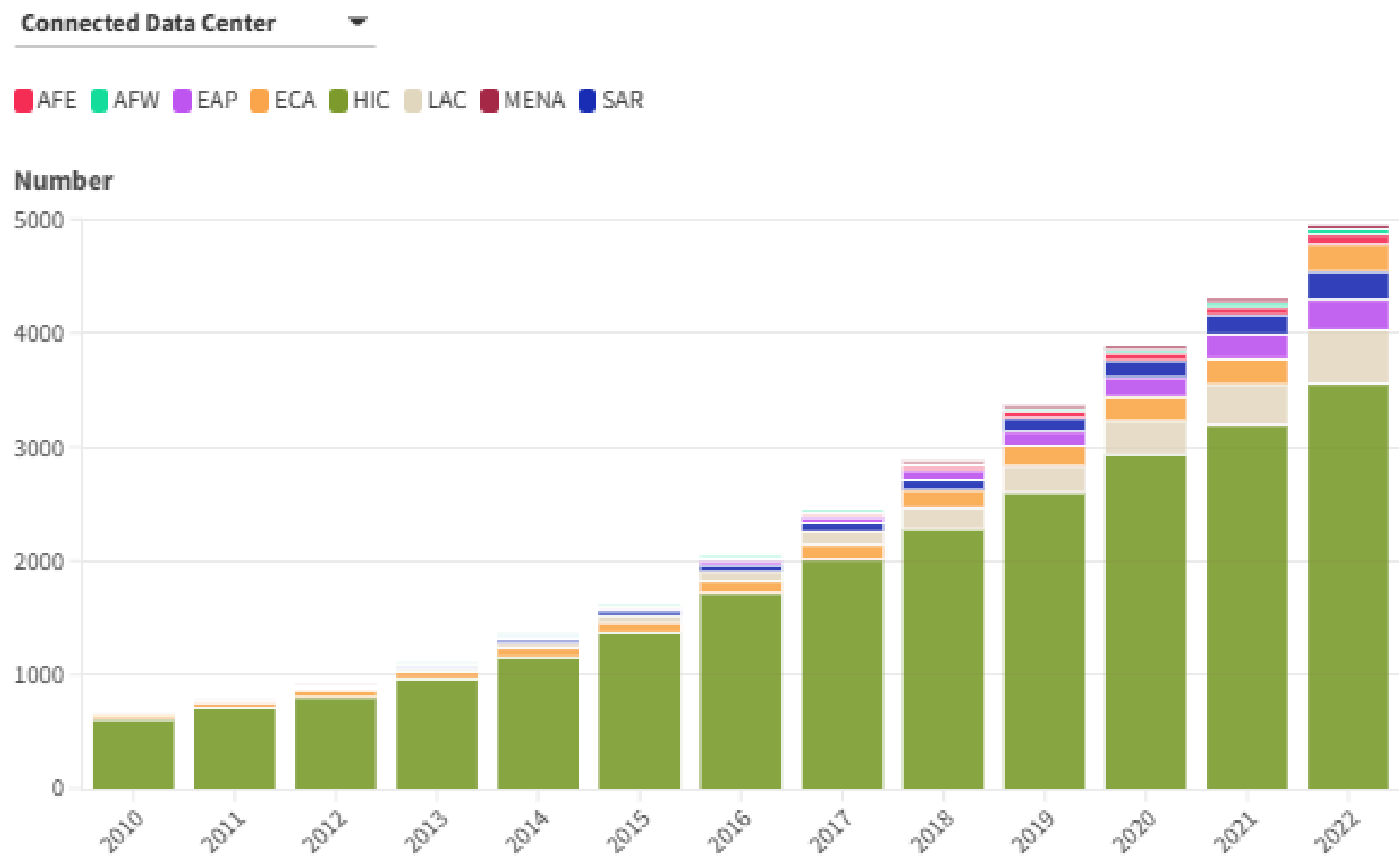


# Digital Infrastructure





# Data centers and IXPs are highly concentrated in high-income countries



Source: Packet Clearing House and PeeringDB

Notes: Africa East (AFE), Africa West (AFW), East Asia and Pacific (EAP), Europe and Central Asia (ECA), High Income Countries (HIC), Latin America and Caribbean (LAC), Middle East and North Africa (MENA), South Asia (SAR).



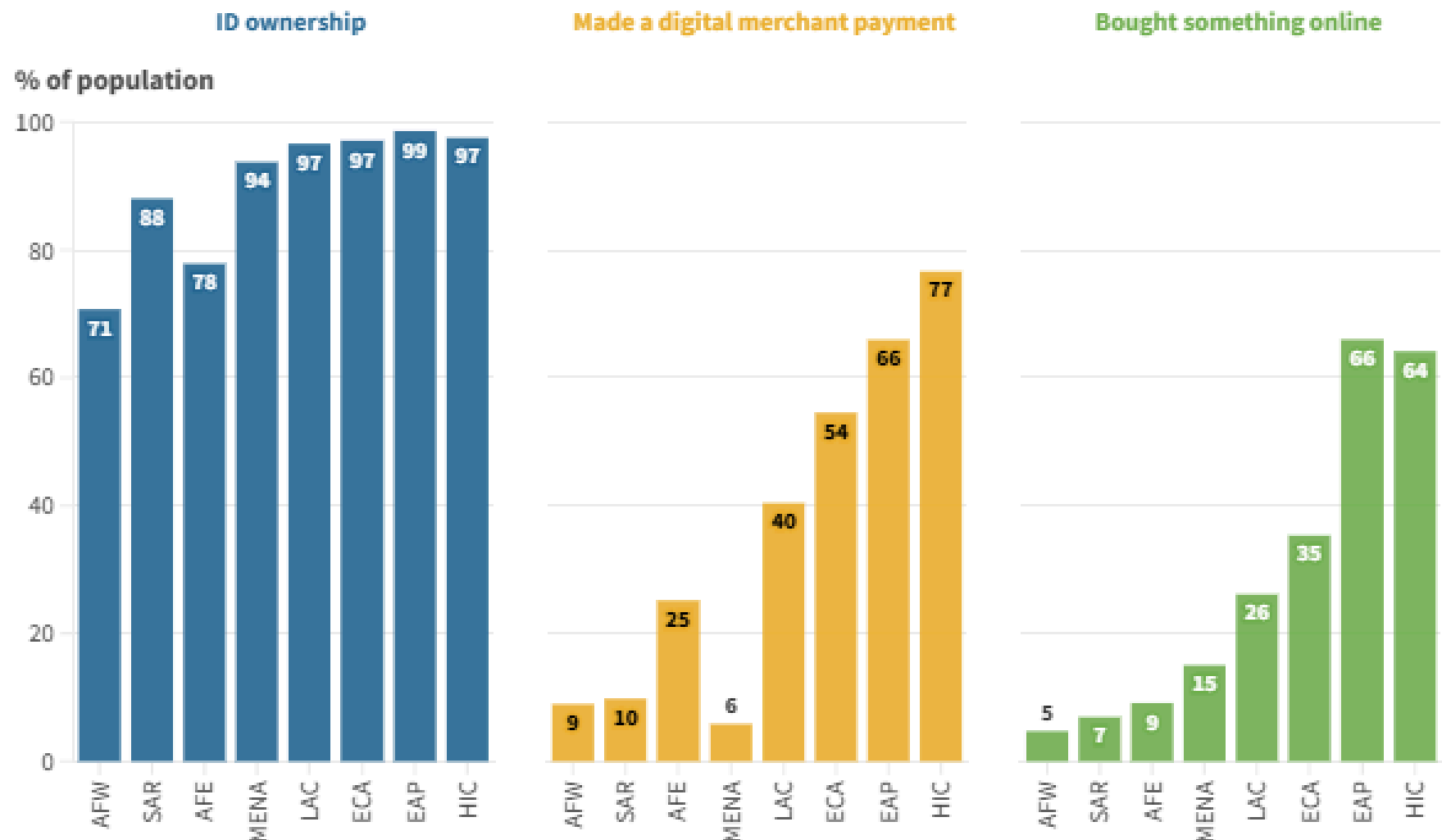
# Identification and Digital Finance





## Untapped potential in digital services

### Identification and digital payment, 2021



Source: Index and ID4D dataset, 2021 • Note: Population-weighted average by region.

Notes: Africa West (AFW), South Asia (SAR), Africa East (AFE), Middle East and North Africa (MENA), Latin America and Caribbean (LAC), Europe and Central Asia (ECA), East Asia and Pacific (EAP), High Income Countries (HIC).



# AI Advances

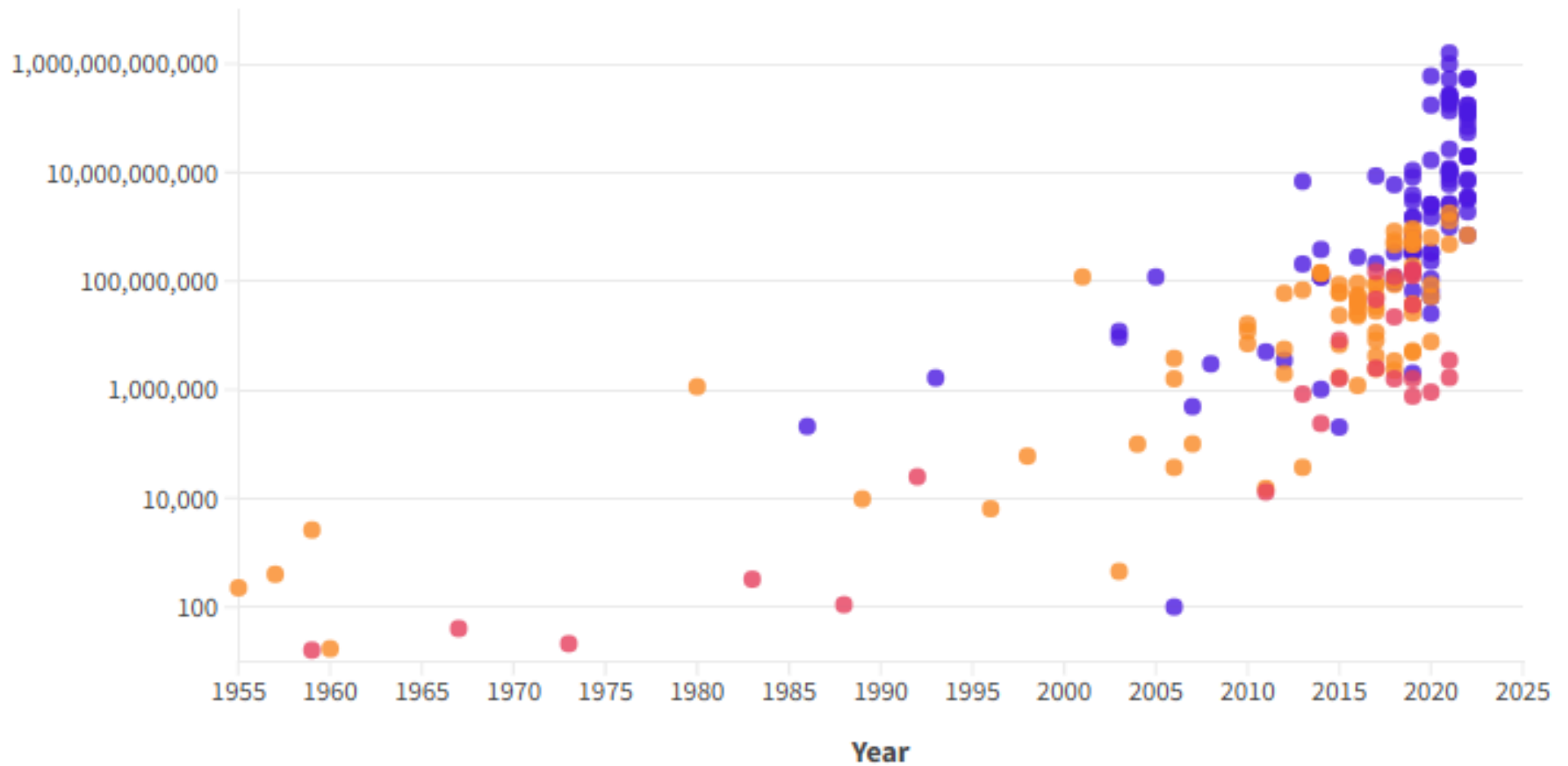




# AI model complexity growing exponentially

Domain ● Language ● Vision ● Games

AI model parameters



Source: Epoch, 2022