Global Infrastructure

Business for Smart Cities Kyiv, Ukraine

January 2019

About Global Infrastructure Hub (GI Hub)





Key Initiatives





Promote Leading Practice



Global Project Pipeline



Address Data Gaps



Building Capacity



Create a global **Knowledge Network**

- Global Infrastructure
 Outlook
- InfraCompass
- PPP Risk Allocation matrix
- Global Infrastructure Project
 Pipeline
- PPP Contract Management



Global Outlook

Forecast infrastructure investment needs and gaps for 7 sectors of 56 countries from 2016 to 2040

Top 5 investment need and gap (\$US Billion 2016 – 2040)

Investment need		Investment gap	
1. China	\$28,393	1. United States	\$3,808
2. United States	\$12,351	2. China	\$1,925
3. India	\$4,452	3. Brazil	\$1,189
4. Japan	\$3,846	4. Russia	\$727
5. Brazil	\$2,713	5. Mexico	\$544



Infrastructure Outlook

- Global Infrastructure Outlook launched July 2017
- Most comprehensive global assessment of infrastructure investment needs undertaken to date
- Highlights:
 - Global investment needs of \$94 trillion to 2040
 - \$97 trillion accounting for Sustainable Development Goals (\$3 trillion for SDGs)
 - Forecast investment based on current investment trends, revealing where gaps exist
 - Contrasting results
 - China the largest need but a relatively small gap
 - US Largest gap



Key Findings

- Over half of investment needs are in Asia.
 - China, India and Japan drive need in Asia, and comprise 39% of global needs.
- China needs \$28 trillion in investment
 - more than half of Asia's total needs
 - 30% of global needs
 - Global infrastructure gap of \$15 trillion by 2040
- The Americas and Africa are forecast to have the largest infrastructure gaps, at 32% and 28% of their needs respectively.



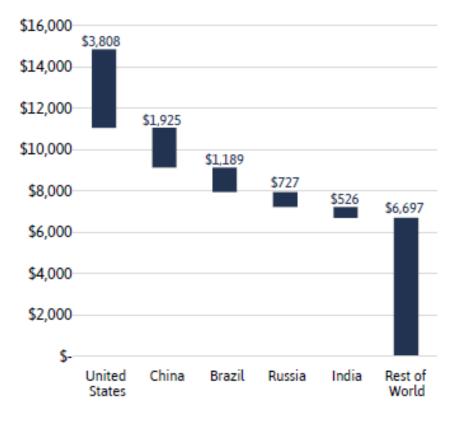
Significant Variance Across Regions

- Latin America: Investment need is most pronounced in the road and electricity sectors.
- North America: The US's \$3.8 trillion infrastructure gap is the most significant of any country.
- Europe & UK: European countries performing well in meeting their infrastructure needs, with some exceptions
- Asia: Those that have a proportionally larger gap include India (\$526 billion), Turkey (\$405 billion), Bangladesh (\$192 billion), and Pakistan (\$124 billion).
- Africa: Most African countries have very large infrastructure needs and face significant investment gaps. South Africa, Nigeria and Egypt are forecast to meet 69% of their infrastructure need.
- Oceania: Australia and New Zealand are broadly on track to meet more than 90% of their infrastructure needs.

Global Infrastructure Hub

Infrastructure Investment Gaps

Figure 6: Total infrastructure spending gap per country 2016–2040 (\$ billion)

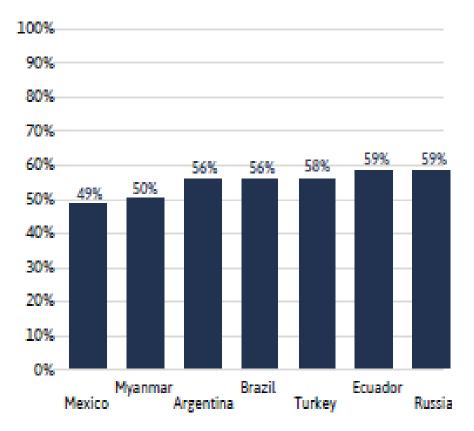


- 5 countries account for 55% of the global infrastructure investment gap.
- China's investment need twice that of the US, its investment gap of \$1.9 trillion is just 7% of its investment need compared with the investment gap of the US, at \$3.8 trillion, 31% of its investment need.



Developing & Emerging Countries

Figure 7: Current trends in investment relative to investment needs

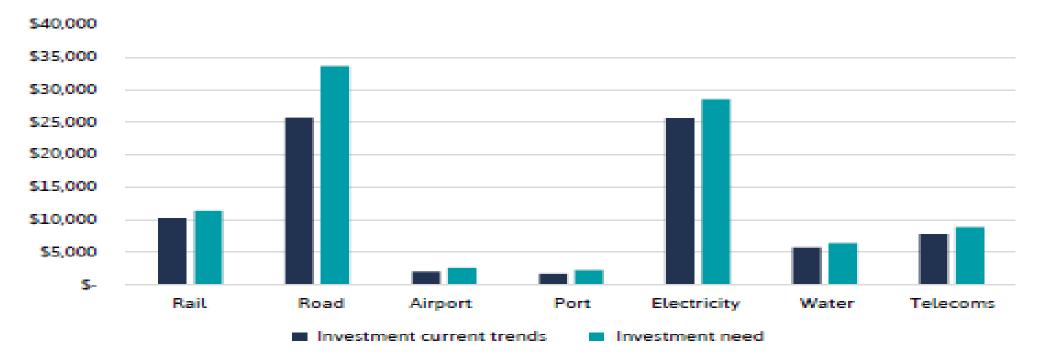


- Developing and some emerging countries continue to have relatively large infrastructure needs and investment gaps.
- Mexico, Myanmar and Argentina may need to double investment to meet future forecast infrastructure needs.



Sector Investment Gaps & Competition for Capital

- \$8 trillion infrastructure investment gap in roads half of the total global infrastructure investment gap.
- Electricity sector represents the second largest infrastructure investment gap at \$2.9 trillion, the majority of that gap is in developing and emerging countries.

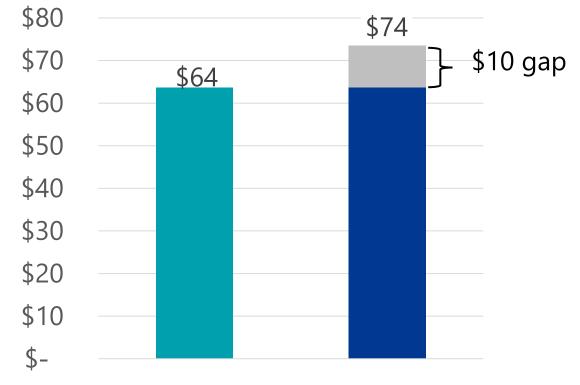


Forecast of investment need for Ukraine

Ukraine forecast of annual infrastructure investment

	Annual (\$US Bn)	
Current trends	2.5	
Investment need	2.9	
Gap	0.4	

Ukraine forecast of cumulative infrastructure investment (2016 – 2040)

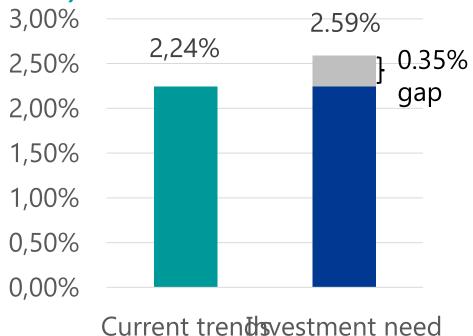


Current trends Investment need

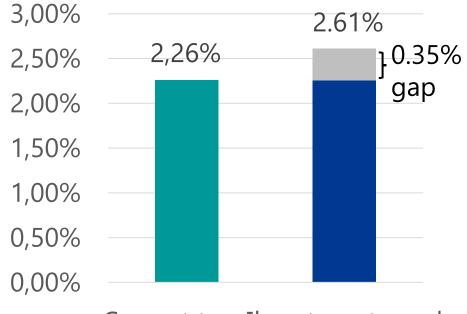
Source: GI Hub analysis, estimates are approximate.

Comparing Ukraine with European continent

Ukraine forecast of infrastructure investment as % of GDP (2016 – 2040)



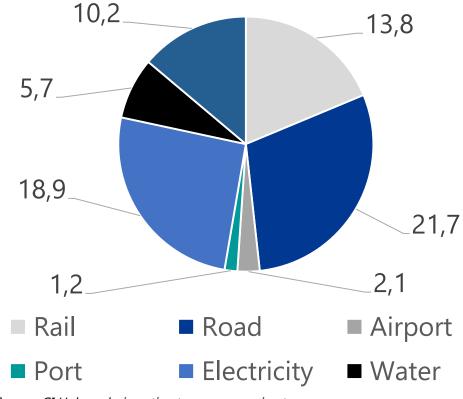
Europe forecast of infrastructure investment as % of GDP (2016 – 2040)



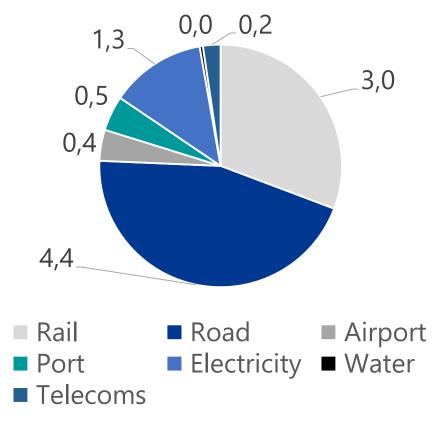
Current trentsvestment need

Sector by sector analysis for Ukraine

Cumulative investment need per sector (2016 – 2040)



Cumulative investment gap per sector (2016 – 2040)



Source: GI Hub analysis, estimates are approximate.

Attributes of an attractive market



What are the key enablers of infrastructure investment?

- The **rule of law** is the strongest driver of investment across economies.
- Transparent, consultative **strategic plans**, backed up by a **pipeline of projects**, and followed through into investment by governments with **bipartisan support**
- **Emerging economies** are catching up with developed countries in terms of the quality of their infrastructure, with the **list of top improvers** over the past decade dominated by emerging countries.
- **Emerging countries** have seen rapid policy development, including:
 - better governance through lowering corruption levels and enhancing the rule of law
 - improved regulatory quality
 - simplifying permit procedures and land administration
 - transparent and competitive procurement processes.



Need for a Transparent Project Pipeline

- Market need for reliable information and global visibility;
- Early stage information enables timely investor engagement;
- Project information is endorsed directly and only inputted by public sectors;
- Project Pipeline assists in government coordination and timing of new projects to market.



A G20 INITIATIVE

Global Infrastructure Project Pipeline

A free to use digital platform that allows governments to promote public infrastructure projects to a global investor network.

Search by 8 Project Stages



Emerging Market Investment Treads







- GI Hub / EDHEC survey, representing \$US 7 trillion assets under management.
- Key findings highlighted in the graphics
- 49% think well structured national Infrastructure Plans "help to improve attractiveness of investing in infrastructure in that country"

Thank you Daniel.Fedson@gihub.org