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## Current Affairs :

### Question: 3

Q: The future world would be techno-polar. Whosoever dominates in technology would lead the world. Comment

### Introduction :

In the future, the world is expected to be driven by technology. "Techno-polar" refers to a situation where the global leadership is determined by who has the best technology. In the emergence of landscape of global affairs, the concept of "techno-polar" maintains that the world's balance of power increasingly links on technological ability. This term summarizes the idea that nations and entities wielding advanced technology are poised

to assert dominance on global stage.

"The future belongs to those who innovative and integrate technology in ways that empowers humanity"

Sundar Pichai

As societies become more interconnected and reliant on technological innovations, the ability to lead in sectors such as artificial intelligence, cybersecurity and renewable energy not only enhances economic and military capabilities but also shapes international influence on geopolitical strategies.

2.

## Defining Technological Dominance

Defining Technological Dominance involves understanding how nations or entities establish and maintain leadership through advanced technology.

### i. Capabilities and Innovation :

The ability to innovate and develop cutting-edge technologies that set global standards.

### ii. Economic Influence :

Leveraging technology for economic growth, productivity gains and competitive advantage in global markets.

"A nation's ability to harness technology is crucial for its competitiveness and economic prosperity in the 21<sup>st</sup> century"

### iii. Military Superiority :

Advancements in defense technologies and cybersecurity capabilities to ensure national security and deterrence.

### iv. Cultural and Soft Power :

Setting trends in digital media, entertainment and influencing global cultural norms through technological platforms.

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"Over 4.6 billion people globally use the internet, with significant portions engaging daily in social media and digital content consumption"

Digital media Survey Report

V. Global Standards and Influences :

It shaping international norms and standards in sectors like AI, data privacy and renewable energy through technological leadership.

3. Ethical Considerations in

Technological Leadership :

Ethical considerations in technological leadership involve navigate complex issues to ensure responsible and beneficial outcomes.

a. Privacy and Data Security :

Upholding individual rights while harnessing data for innovation.

b. AI and Automation :

Ensuring fairness and transparency in decision-making processes.

"Artificial intelligence will reach human levels by around 2029.

In 2045, the human biological machine intelligence of our civilization a billion-fold" Ray Kurzweil

c. Environmental impacts :

To promoting sustainability and minimizing technological ecological footprint.

d. Equity and Access :

Bridging digital divides and ensures equitable access to technological advancements.

e. Human Rights :

Safeguarding against misuse of technology that could infringe on human rights.

4. Regulation and Governance  
in a Techno-polar world :

In a techno-polar world defined by technological dominance, the need for effective regulation and governance becomes paramount. As nations and cooperation for leadership in sectors such as AI, Cybersecurity, and biotechnology.

## 5. Implications of Global Stability :

The implications for global stability and ethical standards grow increasingly complex. Regulation must strike a delicate balance: promoting innovation and competitiveness while safeguarding against the risks like data breaches, algorithmic biases and geopolitical tensions stemming from technological dependencies.

## 6. Impact on Global Diplomacy :

Technology influences global diplomacy by shaping alliances and rivalries based on technological capabilities, cybersecurity concerns and economic dependencies.

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## 7. Environmental Societal Impacts on Technologies:

Technological advancements lead to increased energy consumption and electronic waste, contributing to environmental challenges.

"The global IT sector accounts for about 2% of global carbon emissions"

## Information Technology

## 8. Strategies for Managing Technological Leadership:

Effective strategies include investing in education and research to foster

innovative. International standards for ethical AI and data privacy are crucial to ensure fair and

secure technology use worldwide.

Promoting sustainable practices

such as using renewable energy

in tech manufacturing, helps mitigate

environmental impacts, like reducing carbon

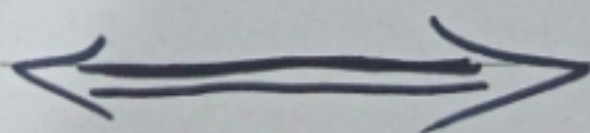
footprints associated with electronics production.

## 9. Conclusion :

In Conclusion, the technopolas world predicts that leading in technology will determine global powers. Countries and Companies advancing in AI, Cybersecurity and renewable energy will gain economic, strategies and cultural influence. Therefore, ethical rules and cooperation are vital to ensure fairness, protect rights and minimize environmental harm. Managing technology responsibility will be key to creating a fair sustainable future for everyone.

"Technological progress is like an axe in the hands of a pathological criminal"

Albert Einstein





## Question: 4:

Q: Critically evaluate the drop scene of Russia - Ukraine war. What do you think whether NATO or Russia would dominate in Ukraine?

### Introduction:

The conflict between Russia and Ukraine has become a significant global crisis, marked by fighting, sanctions and humanitarian challenges. Starting with Russia's takeover of Crimea in 2014 and escalating into full-scale warfare in 2022, the region has seen intense military actions and diplomatic efforts. This situation reflects a larger struggle between Russia's desire for regional influence and NATO's goal of safeguarding stability in Eastern Europe. This evaluation aims to analyze how military strategies, international reactions, and geopolitical factors could determine whether NATO or Russia gains dominance in Ukraine.

## 2. Military Strategies and Techniques

### i. Russia's Grand Operations:

Russia has employed conventional military tactics in Eastern Ukraine, supporting separatist forces to destabilize Ukrainian control and expand influence in the region. This approach includes deploying troops, conducting ground offensive and fortifying positions in contested area.

"The conflict reflects broader geopolitical tensions, where NATO's commitment to Eastern European stability counters Russia's regional aspirations". NATO

### ii. Air and Missile Superiority:

Russia forces have demonstrated air superiority by conducting extensive air operations over Ukraine territory. They have also utilized missile strikes to target critical

critical military infrastructure, disrupting Ukrainian defenses and infrastructure networks.

Russia has deployed a variety of aircraft, including Su-27, Su-30 fighters, as well as Su-34 bombers, to carry out these operations.

(Russian Survey Report)

### 3. NATO's Responses to the Russian - Ukraine War:

#### a. Military Aid:

NATO member states, led by the United States and European allies, have provided substantial military assistance to Ukraine.

This aid includes advanced weaponry, equipment and training to bolster Ukrainian defenses and enhance combat capabilities against Russian forces.

"Well, we are very glad that Russia is so close

with NATO" (Aleksander Kwasniewski)

## b. Defensive Measures adopted by NATO

In response to Russian aggression, NATO has strengthened its Eastern European defenses through a series of measures. This includes deploying additional troops to member states bordering Ukraine, conducting joint military exercises, and enhancing air and missile defense systems to deter further Russian advances.

"I think that NATO is itself a war criminal"

Harold Pinter

## 4. Geopolitical Implications of Russian - Ukraine War :

Western countries have put strong punishments on Russia's economy.

These punishments, called sanctions, are meant to make Russia change its actions by halting its ability to trade and do business with other countries.

Countries around the world are trying to talk and make deals to end the fighting peacefully. These efforts, like the Minsk agreements, have had some talks but have not made much progress in stopping the conflict completely.

"Diplomatic efforts are crucial to finding a peaceful resolution to the Russia-Ukraine conflict and restoring stability in Eastern Europe" Emmanuel Macron

## 5. Humanitarian Crisis of War :

The conflict has led to significant civilian casualties and displacement across Ukraine and neighboring regions, creating a pressing humanitarian crisis.

## 6. Economic Consequences of War :

Both Ukraine and Russia are grappling with economic strains due to imposed sanctions and high military

high military expenditures, exacerbating their financial challenges.

## 7. NATO's Prospects about Russian War Crisis:

NATO's collective defense measures are strengthening regional security, supported by a broad international coalition opposing Russian actions, enhancing NATO's influence.

"Our support for Ukraine is unwavering, NATO stands with Ukraine in the face of ongoing aggression"  
Joe Biden

## 8. Challenges Faced by Russia:

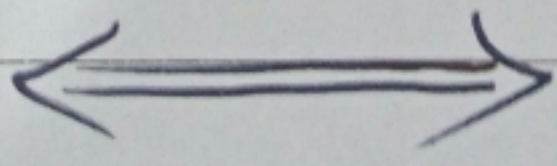
Russia faces severe economic pressure from international sanctions and internal dissent, impacting its ability to sustain dominance in Ukraine.

Additionally, the military stalemate and resilient Ukrainian defenses complicate Russia's strategic objectives.

"The conflict in Ukraine has strained Russia's economy and raised concerns about its long-term stability"  
(European Union)

9. Conclusion :

The outcome of the Russia-Ukraine conflict remains uncertain, shaped by present military operations, diplomatic negotiations and humanitarian concerns. While NATO's support strengthens Ukraine's defense capabilities and international standing, Russia's military presence and historical ties present enduring challenges. The path forward lies on diplomatic initiatives and international consensus towards achieving stability and peace in Eastern Europe.



## Question: 6

Q: Load shedding and ballooning electricity prices badly hit the economy of Pakistan. Critically evaluate the statement and give possible recommendations.

### Introduction:

Load shedding and increase rapidly electricity prices have inflicted substantial harm on Pakistan's economy. These challenges disrupt industrial productivity, strain household finances and deter investment, thereby impede economic growth. Addressing these issues requires strategic reforms and investments to enhance energy infrastructure, promote efficiency and ensure affordable and reliable electricity supply. This evaluation explores these impacts and proposes essential measures to mitigate their adverse effects on Pakistan's economic stability and development.



II.

## Critical Evaluation of Load Shedding:

1. Impact on Industrial and Business:

Load shedding disrupts industrial operations, leading to decreased productivity and increased costs due to the need for alternative power source like generators. This process delay economic growth and discourages investment.

"Frequent power outages lead to downtime and reduced

productivity, impacting our ability to meet deadlines and fulfill orders"

Small business owner in Pakistan

2. Impact on Agriculture Sector:

Agriculture, a significant sector in Pakistan, heavily relies on consistent electricity for irrigation and processing.

Load Shedding can severely affect crop yields and food production.

High electricity prices increase production costs by 100% for farmers, reducing their profits margins and overall economic viability.

Dr. Abdul Razzaq

(Economist and Professor of University of Agriculture, Faisalabad)

3. Household and Consumers :

High electricity prices burden households and consumers reducing disposable income for spending on other goods and services.

This can due to domestic consumption and economic activity.

"When there is no electricity, life comes to a standstill,

We can not cook, work, or even sleep comfortably"

(House hold in rural village)

#### 4. Investment and Development:

Unreliable electricity supply offers to foreign investment and to stop infrastructure development, which are crucial for economic progress.

"The country aims to attract over \$40 billion in energy sector investments by 2030 to improve infrastructure and address supply issues"

(Energy sector of Pakistan)

#### 5. Government Finances:

Subsidizing electricity to mitigate high prices strain government finances, affecting budget allocations for other development priorities like

a. Healthcare

b. Educational Institutions

### III. Solutions and Recommendations of Load Shedding and Electricity Price in Pakistan :

#### 1. Investment in Energy Infrastructure :

To prioritize investment in energy sector infrastructure, including

- a. Power Plants
- b. Transmission Lines
- c. Renewable Energy projects

To increase capacity and reduce dependency on costly imports.

#### 2. Energy Efficiency :

To promote energy efficiency practices and technologies in industries and households to reduce overall demand and improve sustainability.

#### 3. Diversification of Energy Sources :

To encourage diversification of energy sources such as solar, wind, and hydropower, to ensure a more reliable

to ensure a more reliable and cost-effective energy sources.

#### 4. Public Awareness and Conservation:

Educate the public on energy conservation practices to reduce overall demand and lessen the impact of shortages.

"Young people are increasingly recognizing the importance of energy conservation for a sustainable future. Their activism can drive meaningful change"

**Dr. Javed Iqbal**

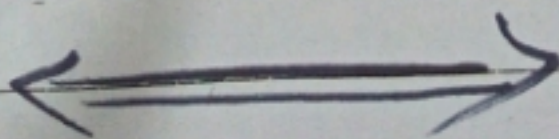
"Youth Engagement Specialist"

#### 5. International Cooperation:

To seek international cooperation for technical assistance, financing and knowledge sharing in developing sustainable energy solutions.

#### IV Conclusion:

The impact of load shedding and rise rapidly in electricity prices on Pakistan's economy is undeniable and multifaceted. These challenges undermine industrial productivity, strain household budgets, deter investment and block overall economic growth. To mitigate these effects, urgent reforms and strategic investments are essential. Recommendations include enhancing energy infrastructure, promoting energy efficiency with a focus on renewables, implementing policy reforms to attract private investment and promoting public awareness and conservative efforts. Addressing these issues comprehensively can stabilize electricity supply, reduce costs and stimulate economic development in Pakistan.



## Question 7:

Q: CPEC projects have become increasingly slow. Critically evaluate the reasons and find out solutions.

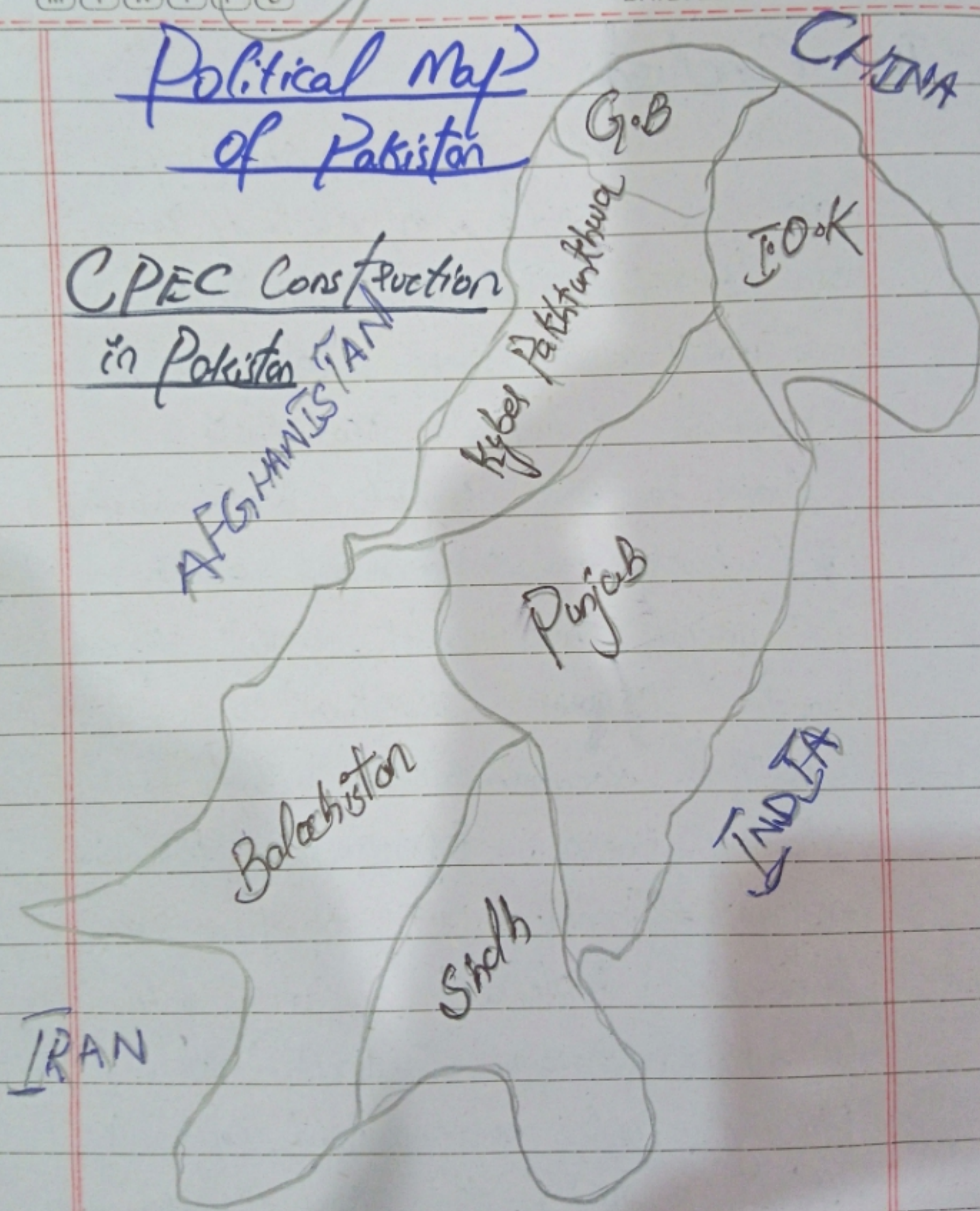
### Introduction:

The China-Pakistan Economic Corridor (CPEC), initially imagine as a flagship infrastructure initiatives, has encountered significant delays in its implementation. These delay stem from a complex interplay of security challenges, bureaucratic hurdles, financial constraints, environmental considerations and technical difficulties.

These factors have collectively impeded the timely progress of projects critical to enhancing connectivity and economic development in the region. Addressing these issues is crucial to unlocking the full potential of CPEC and ensuring its transformative impact on both China and Pakistan.

# Political Map of Pakistan

## CPEC Construction in Pakistan





## 2. Reasons for Slow Progress of CPEC:

### i- Security Concerns:

Persistent security threats along the route have delayed infrastructure projects. Insurgent activities in Balochistan and other regions have led to disruption and safety concerns for workers and contractors.

### ii- Political and Administrative Issues:

Political transitions and bureaucratic hurdles in Pakistan have contributed to administrative delays in projects approvals, land acquisition and regulatory clearances.

"The bureaucratic red type/tape and administration hurdles have significantly slowed down the progress of CPEC projects, necessitating streamlined processes for approvals and clearances"

(Ahsan Iqbal)

Pakistan's Minister for Planning and Development.

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Financial Challenges of CPEC:

The funding constraints and economic instability in Pakistan have sometime impeded timely disbursement of funds required for CPEC projects.

iv. Environmental and Social Impact Concerns:

Environmental assessment and mitigations, as well as addressing local community concerns about displacement and environmental impacts, have slowed down project implementation.

### 3. Solutions to Expedite Progress:

1. Enhance Security Measures:  
To strengthening security arrangements along the CPEC route to mitigate risks and ensure the safety of personnel and infrastructure.  
The Pakistani government established the Special Security Division, comprising 15,000 personnel, dedicated to protecting CPEC projects and Chinese national working in Pakistan" (Special Security Division)

2. Financial Management Improvements:  
Ensuring timely disbursement of funds and exploring diverse financing options such as public-private partnership (PPPs) or international investments to mitigate financial constraints.

3. Community Engagement and Mitigation :  
Proactively addressing environmental concerns and engaging local communities in project planning and implementation to ensure their support and cooperation.

"CPEC projects have created employment opportunities for local communities, over 75,000 jobs have been generated for Pakistani workers, contributing to local economic development."

(Ministry of Planning and Development)

4. Capacitating / Capacity Building and Technical Support :

It providing training and capacity building for local workforce in technical and engineering skills required for CPEC projects can enhance efficiency and effectiveness.

## 5. Political Stability and Commitment :

To ensuring continuity in policy/policies and commitments across political transitions to maintain momentum in projects implementation

"CPEC is a project of national importance and will be pursued with unwavering determination. It represents a new era of development and prosperity of Pakistan"

(Nawaz Sharif)  
"Former PM of Pakistan".

## 4. Conclusion :

In conclusion, the slowdown of CPEC projects can be attributed to a combination of security concerns, political and administrative inefficiencies, financial constraints, environmental and social impacts issues and technical challenges. To address these issues and expedite progress, it is essential to enhance security measures, streamline regulation and improve financial management to engage and support local communities.

By implementing these solutions, the potential benefits of CPEC can be fully realized, contributing to the economic development and strategic interests of both China and Pakistan.

