



## SDG #9:

# Infrastructure, Industrialization, Innovation

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## Is the world on track to meet SDG #9?

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- 1) Under-appreciated #9: a targeted 'means' to a better world
- 2) Implementation conundrum: *Good... Bad & Ugly*
- 3) Progress? Herb's first-hand UN examples, other examples/indicators

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# **BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION**

- 9.1 Sustainable & promote inclusive and sustainable industrialization resilient infrastructure for development & human well-being, affordable & with equitable access for all**
- 9.2 Inclusive and sustainable industrialization, raise share of employment & GNP esp in LDCs**
- 9.3 Small-scale industry especially in developing countries**
- 9.4 Upgrade infrastructure & industries: sustainable with clean and environmentally sound technologies & processes**
- 9.5 Enhance scientific research, technological capabilities esp in particular developing countries, encouraging innovation & R&D**  
(9.c Increase access to information & communications tech, access to Internet in LDC's)

## Infrastructure, Industry, Innovation.... Who Cares?

- > Relatively little Interest & 'low priority'
- > Dangers of *Good, Bad and Ugly*: e.g. profit motives, endanger climate, skew benefits to wealthier people & nations
- > #9 is not targeted to equitably meet Basic Human Needs...  
...nor to protect Environment

**BUT #9 is Interconnected – Essential – and Underappreciated!**



## #9 is Interconnected – Essential – and Underappreciated!

#1: combatting Poverty; provides income poor people and Less Developed Countries

#2: raising Food production, processing, nutrition, storage > reducing Hunger

#5: affects Gender equality, who participates & benefits

#6: improving access to Water & Sanitation

#7: impacts affordable, accessible, 'clean' Energy

#8: enables Work/jobs, economic security, growing-developing economy

#10: influences Equality or continued/worsening Inequalities

#11: determinant of sustainable Cities & communities

#13, 14, 15: solutions to Climate crisis, emissions, protecting conserving Resources

#17: indispensability and prospects for Partnerships/collaboration (public & private sectors)

**<< #9: Key “means” to inclusive, sustainable, equitable fulfillment of SDGs, to meet Human Needs >>**

## AGENCIES FOR PROGRESS: Partnership & Collaboration

	<u>Intl</u>	<u>Marin</u>
1. Governments: local, state/regional, national	X	X
2. Private sector/enterprises investment	X	X
3. Financial institutions/banks	X	X
4. Foreign investment	X	(X)
5. Trade, trade agreements	X	(X)
6. International Development Assistance	X	O
7. Civil Society, NGO/CBOs	X	X



## Progress to Fulfill SDG #9: My UN Experiences

- Swaziland: small enterprises, animal plowing
- Benin: geologic assessment, irrigated desert (onions)
- Angola: demining
- Kazakhstan: small enterprise/credit, eco-protection, solar, assessing nuclear consequences, earthquake risk, economic planning (ag, environment), women's roles, HIV control
- China: industrial tech (computer apps, lightbulbs, silk, etc), food, pollution control, water conservation/usage, petrol extraction, Tibet geothermal, desertification, "TCDC" economic planning



# Fulfilling SDG #9 by 2030: Global Progress?

**Key influencers: COVID, Climate change/disasters, Econ slowdown**

## **Quantifiable Examples:**

- Manufacturing:** ~14%, steady but % shifting in developing countries
- Infrastructure:** high investment (energy, transport, water) [China]
- Innovation (R&D):** vaccines, transport, renewable energy: solar/wind
- Internet (9.c):** 60%, rising (20%) in Africa, 'on target'