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**“Climate Change Impacts and
Adaptation for Coastal Transport
Infrastructure in the Caribbean”**

**Coastal Transport Infrastructure in the
Caribbean – Economic Implications of
the Recent Disasters**

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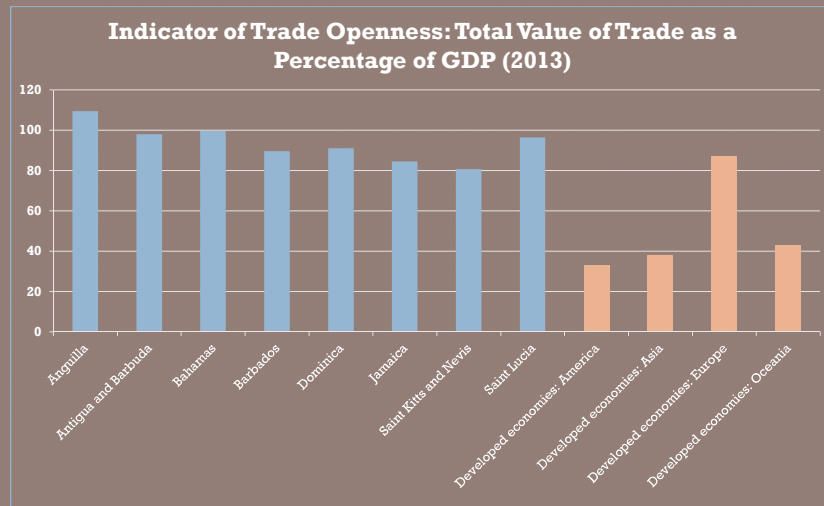
Coastal Transportation Infrastructure in the Caribbean - Economic Implications of the Recent Disasters

Presented by
Willard Phillips
UNECLAC
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Organization

- Transportation Infrastructure is Critical for SIDS
- Infrastructure Characteristics
- Impacts of Recent Disasters – Damages and Loss
- Macroeconomic Implications - Debt
- Social Impacts – Education and crime
- Political Impacts
- Conclusion

Transportation Infrastructure is Critical in SIDS



Source: UNCTAD

Critical for Goods Trade



Critical for Passengers



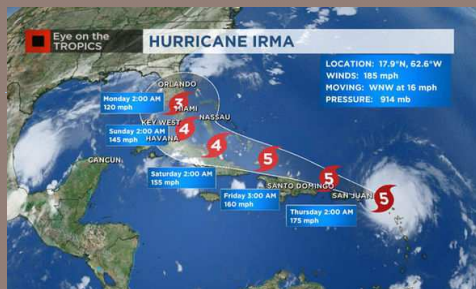
Transportation Characteristics

- Small transportation markets
- High fixed costs per capita – scale effects
- Limited inter-connectivity
- Limited modes and redundancy
- Inflexible scheduling
- Reflecting diverse source and destination markets – historical legacy

Transportation Infrastructure is also Vulnerable



Impacts of Recent Disasters



Impacts of Recent Disasters...



Impacts of Recent Disasters



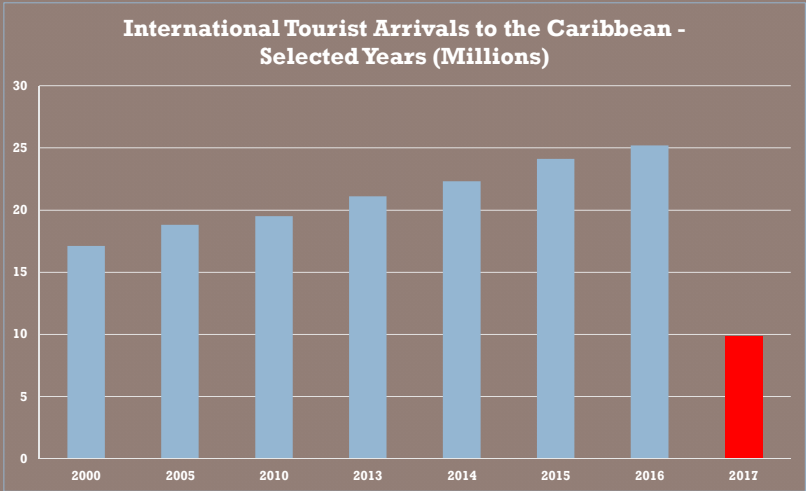
Impacts from Natural Hazards

- Direct Impacts: Preliminary damage assessments – between 80% - 200% GDP
- Disruption of Trade Flows
- Destruction to agricultural crops, roads and bridges, electricity and telecommunications
- Up to 95% of buildings damaged or destroyed
- 33% of electricity infrastructure destroyed
- Loss of life
- Preliminary reported estimates: USD40 – 55 Billion for the Caribbean alone.

Other Economic Impacts...

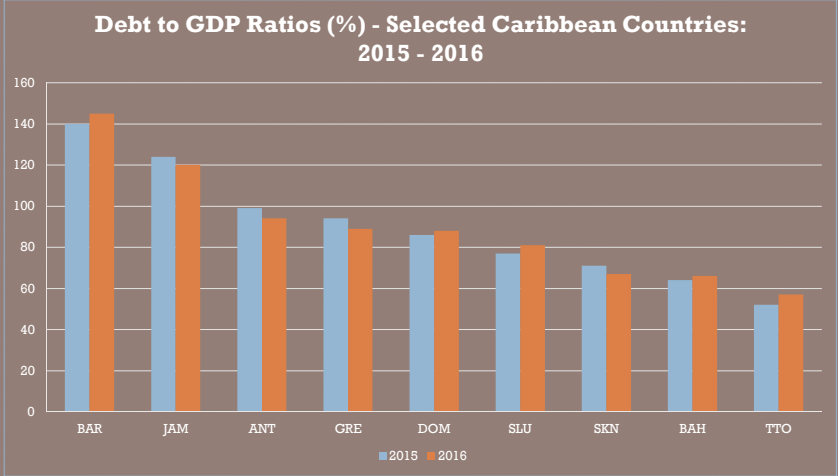
- Key sectors – Tourism
- Public Debt
- Disruption of Investment Flows
- Increased risk premiums
- Logistics disruptions
- Environmental costs

Tourism...



Source: UNWTO
June, 2017 - CTO

Public Debt...



Source: IMF

Other Economic Impacts...

- ◉ Disruption of Investment Flows
- ◉ Increased Risk Premiums
- ◉ Logistics Disruptions
- ◉ Environmental Costs

Other (non-transportation) Impacts

- ◉ Social: Education and Health
- ◉ Political
- ◉ Overall medium to long term impacts unknown

Conclusions

- The peculiarities of the sub-region make transportation infrastructure extremely critical for Caribbean SIDS
- Strategies for reducing vulnerabilities, enhancing resilience, and improving economic efficiency are necessary for sustaining economic and social gains.

