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Climate Change Adaptation for Seaports in Support of the 2030 Agenda for Sustainable Development

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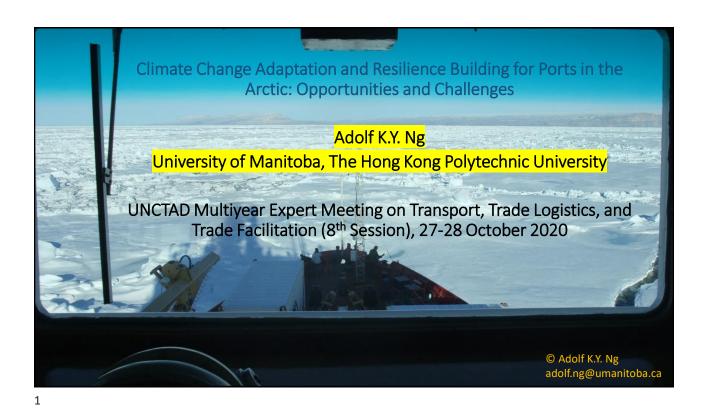
Climate Change Adaptation and Resilience Building for Ports in the Arctic: Opportunities and Challenges

Presentation by

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Arctic Ports and Infrastructures

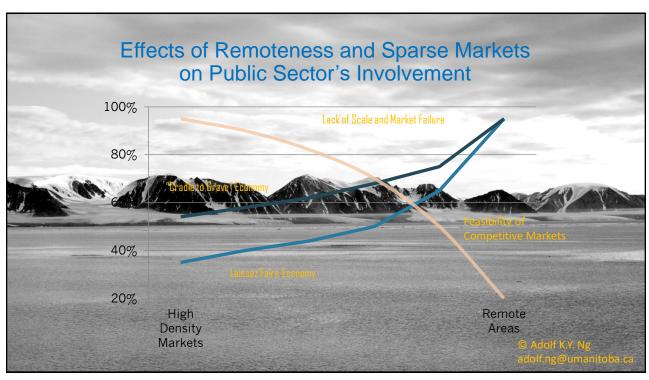
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Appropriate Approaches to develop Arctic Ports

- A clear vision for the Arctic Area (AA): There are pressing needs for decision-makers (e.g., Canadian Federal and Territorial Governments) and right holders (e.g., northern indigenous communities) to develop and possess clear shortand long-term visions on how AA's economy and society could/should be re-shaped by Arctic shipping, including any installation of ports and infrastructures. For example, how should ports and infrastructures transform the connections between the AA and the global economy, while also preserving the traditional society?
- Bottom-up approach and small-scale start-up: Initial
 involvement of foreign parties should be incremental, where
 collaboration should take care of both 'global' and 'local'
 interests. For any external investments, the investors should
 strive to thoroughly understand the unique characteristics,
 and thus the demands, of the local communities before
 making any commitments. Any commitments should be
 'target-oriented' on specific objectives that are defined under
 such vision.

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Appropriate Approaches to develop Arctic Ports

- Ports should be treated as system components: Ports form
 important components of 'operational' (e.g., part of a transport
 network) and 'regional' systems (e.g., part of a local community).
 Hence, any planning and establishment of ports and
 infrastructures should not only be treated just as 'isolated
 projects', where facilities should be planned and installed based
 on the 'systems' that both the government and the right holders
 strive to establish.
- Re-evaluation of the planning process of ports and its
 governance system: There is a strong need to re-evaluate the
 process of port and infrastructural planning in this area,
 especially on whether the current planning paradigm fits the
 Arctic context. Also, there is a need for a new management and
 governance system so that (future) Arctic ports and
 infrastructures will be operated in a way that fulfills diversified
 interests and achieves the vision. A 'balanced consortium' should
 be created that can meaningfully involve the voices, interests,
 and concerns of the public sector, private operator/investors, and
 the local community (i.e., the people). See diagram in the next
 slide.

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