Flexible and Adaptive Port Planning (PPT)
Case Study of Port of Isafjordur
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Flexible and Adaptive Port Planning, Case Study of the Port of Isafjordur

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Harpa, Reykjavik, Iceland
October, 2018
Port Planning and The Traditional Practice

• Cargo Flow Forecast
• Shipping Forecast
• Technical (design) Lifetime of the Port Infrastructures is 25-50-100 years
# Uncertainties

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Technology

- Port of Rotterdam
Area of Study

- Hafnir Ísafjarðarbær
Uncertainties

Flateyri

Isafjordur

Number of Cruise Ship

Number of Passenger
Adaptive Port Planning (APP)

- (P. Taneja, 2013) The flexible port
- “... a port with the capability to change so as to be functional under new, different, or changing requirements...” by means of minimal additional investment while maintaining overall levels of efficiency, reliability and quality of service.
Adaptive Port Planning (APP)

- First Step (Definition of Success)
Adaptive Port Planning (APP)

Stakeholder Groups
1- Internal stakeholders, 2- External stakeholders, 3- Legislative and public policy stakeholders, 4- Community stakeholders, and 5- Academic stakeholders

Criteria of Port Planning
1- Competitiveness, 2- Land use, 3- Safety and security, 4- Hinterland connectivity, 5- Flexibility, 6- Environmental implications, 7- Economic and social impacts, and 8- Financial performance
Adaptive Port Planning (APP)

- Stakeholder Mapping (2D & 3D)
Adaptive Port Planning (APP)

• Stakeholders Attribute
Adaptive Port Planning (APP)

• Definition of Success

Competitiveness

Use of Land
Thank you for your attention

“The best way to predict the future is to create it.”

(Abraham Lincoln and Peter Drucker)

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