THE WAY FORWARD

Suborbital High Speed Transportation
Earth Point to Point (P2P)
Focus

Presented by:
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Background-History

- January, 1\textsuperscript{st} 1914
- First commercial flight
- Flying Boat
  - 1 Passenger
  - 22 miles
  - $400 (today $10,000)
- Flying Boats led commercial air transportation until mid 1940’s
  - From known to new, innovation-safety-revenues
“By 2050 suborbital space transportation services could be as safe, reliable, clean, frequent and valuable to mankind as air transportation is today”
Paradigm Shift
Transportation Beyond Mach 1

• In a faster and faster digital world, average speed of air travel has been stagnant at Mach 1 for 50 years

• An “evolutionary” increase in speed to Mach 5+ is expected in “mature”

• Service by 2050
  – Endo Atmospheric Hypersonics
  – Exo Atmospheric Suborbitals
The Markets
Investors-Regulators-Users
Private Investment Dominant

- Atmospheric Flights
  90% Commercial – 10% Government/Military

- Sub-Orbital Flights:
  80% Commercial – 20% Government

- Low Earth Orbit – LEO:
  80% Government – 20% Commercial

- Deep Space
  Government 90% - Commercial 10%
Regulatory-Financial Frameworks
Global Interdependence

- Drive Safety, **FINANCIAL**, Legal, Environmental

- Regulatory Frameworks
  - Endo Atmospheric	Hypersonic
    - Known “air” transportation regulatory and markets frameworks
      - “air” transportation	Bottom-Up
  - Exo Atmospheric	Suborbital
    - New regulatory and markets hybrid frameworks
      - “space transportation”

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The Way Forward-REMART Conference
Suborbital Case
The Case of Regulatory Duality

- Dual regulatory-revenue regimes co-exist:
  - Experimental
  - 2nd Parties - Informed Consent
    “Participants”
  - Early adopters at their own risk
  - Commercial
  - 3rd Parties - Airline style
    “Passengers”
  - Main stream-mass markets with government certification

- Dual regimes SYNERGIES ARE ESSENTIAL for private FUNDING confidence and INVESTMENT return
Thank You

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