



# Burnaby Mountain Gondola: Making the Rapid Transit Connection

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# 1. Project Overview



# Burnaby Mountain Gondola Route



# Technical summary

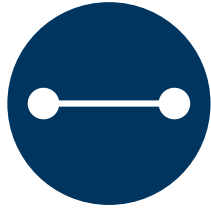
*These components have been confirmed*

- Gondola technology
  - 3S gondola technology
- Infrastructure
  - Two terminals, four towers
  - Terminals located at Production Way-University and near SFU Town Square (east side of campus)
- Attendants
  - Attendants in each terminal to assist with boarding and alighting

*These components may be refined through future design phases*

- Capacity
  - Opening day: ~3,000 passengers per hour per direction
  - Ultimate: ~4,000 passengers per hour per direction
- Trip time
  - 6 minutes
- Travel speed
  - Between terminals: 6-8 meters/second or 27.5 kilometers/hour
  - In terminals: 0.18 meters/second, can slow down more or stop if needed
- Cabins
  - Capacity of about 30 passengers

# Benefits



## Direct Route

Offers the most direct route connecting Skytrain with Burnaby Mountain



## Rising Demand

Enough capacity to meet rising demand over the next 30 years



## Environment

Reduces GHG emissions and air pollution



## Reliable

Addresses overcrowding and weather-related reliability issues



## Cost-Effective

Requires less annual operating costs than current bus service



## Customer Experience

Improves customer experience through reduced travel time and ease of travel

# Working project timeline



Planning	Business case development	Approvals of Investment Plan & senior government funding	Procurement, design & construction
2020-2021	2022-2024	2025	2-3 years

Opening day



## 2. Urban Transit Gondola Considerations

# Heuristics and project understanding



Availability



Anchoring



Representative

“Heuristics is the process by which humans use mental shortcuts to arrive at a decision”

# The Burnaby Mountain Gondola Experience



# TransLink considerations: Service and financial accountability considerations



## Key Considerations:

- Align with TransLink and Partners' Plans and Visions
- Advance Reconciliation through ongoing engagement to understand interests and rights; prioritized environmental and archaeological work
- Provide a positive and safe customer experience
- Support integrated transit supportive developments
- Financial accountability

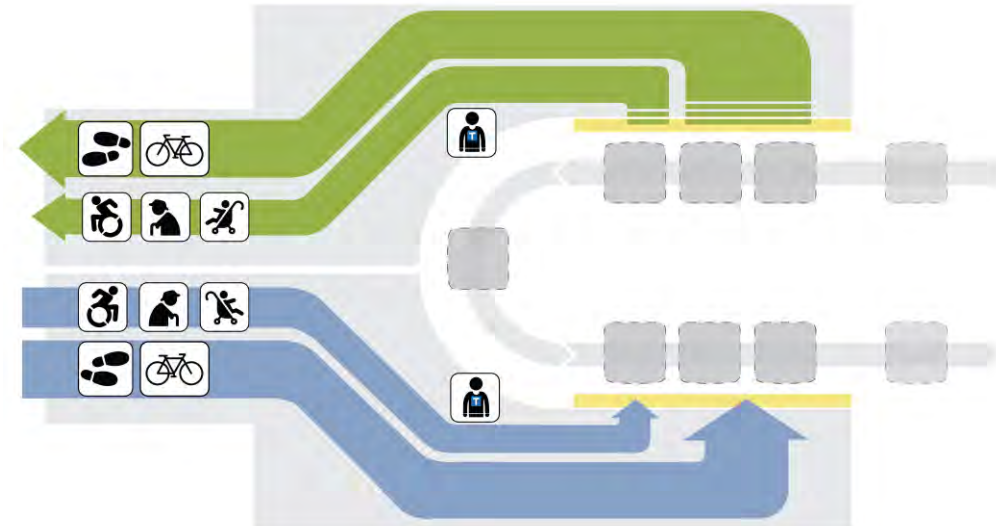
## What We Did:

- Upfront definition of project requirements (including Concept of Operation and Maintenance, Technical Safety BC engagement)
- Develop project in holistic system approach, including integration needs
- Consider long term O&M Needs and costs
- Optimize alignment to minimize property, utilities, and development opportunities impacts

# Understanding design, operations, and maintenance



Lower terminal conceptual rendering

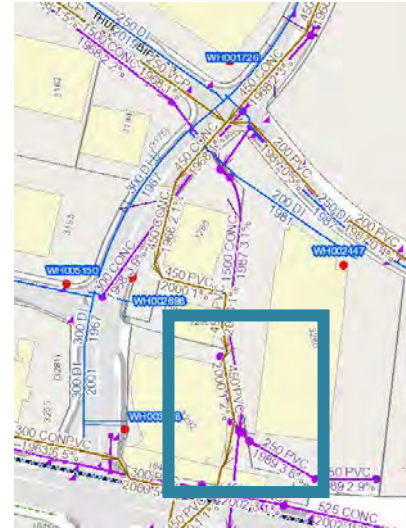


Boarding and alighting areas organization

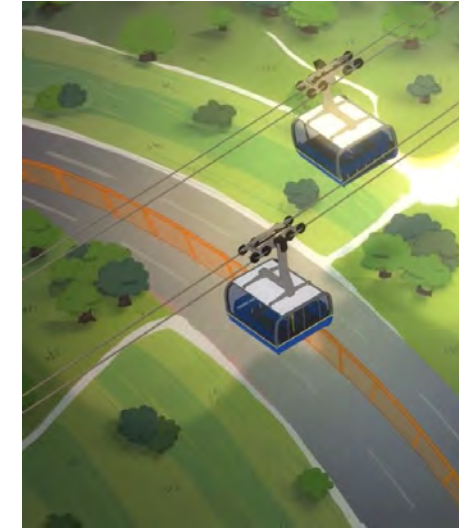
# Urban considerations



BC Hydro 69kV Transmission  
w/ Distribution



Lower terminal area  
and utilities



Air rights

# Environmental and archaeological considerations



Burnaby Mountain Conservation Area



**kʷikwəłəm**  
(Kwikwetlem)



**xʷməθkʷəyəm**  
(Musqueam)



**Sḵwxwú7mesh**  
**Úxwumixw**  
(Squamish)

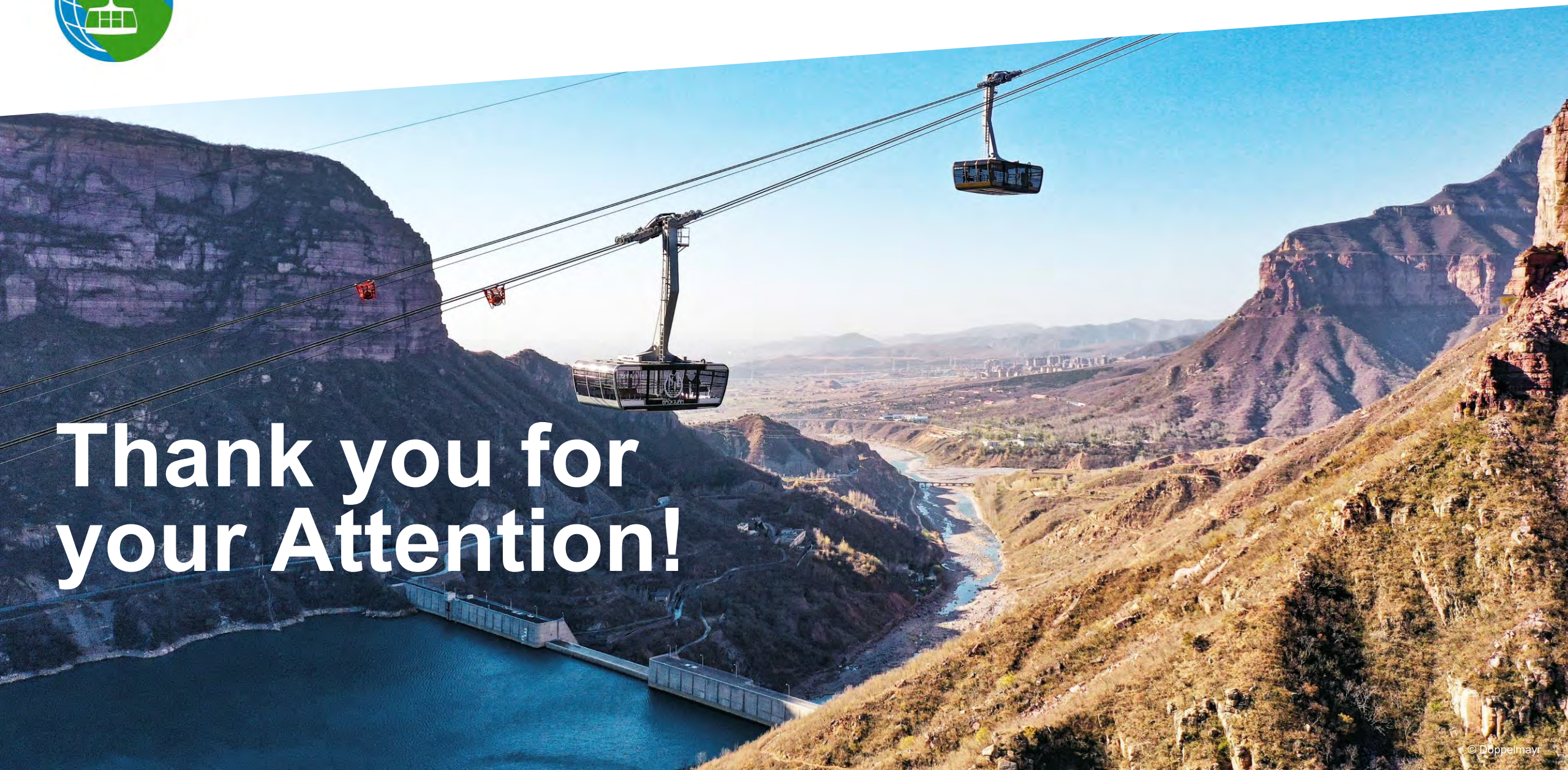


**səlilwətał**  
(Tsleil-Waututh)

# Summary

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- ***Tools and technology:*** Understanding heuristics and taking steps to visualize, share and develop project understanding
- ***Partnership approach:*** Early understanding and continued engagement of public / municipality / Senior government / Indigenous interests / Partners / stakeholders / consultants
- ***Peer Experiences:*** Education and leveraging the growing industry of urban ropeways
- ***System Approach:*** Developing the project through a holistic systems approach from opening day to long-term operations and maintenance needs



**Thank you for  
your Attention!**