

Caminho Aéreo Pão de Açúcar



CONTINUOUS MOTION, CONSTANT EMOTION

How to operate 365 days a year

Giuseppe Pellegrini

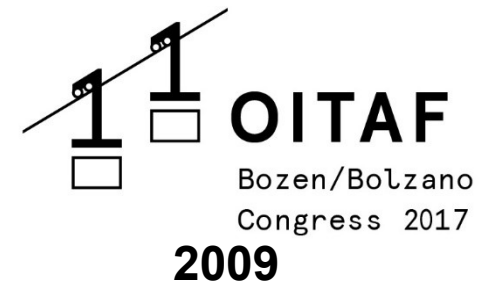
Diego Scofano

CIA CAMINHO AÉREO PÃO DE AÇÚCAR
RIO DE JANEIRO – BRASIL

Bozen/Bolzano 6 - 9 June 2017



Timeline



1909

1912

1972

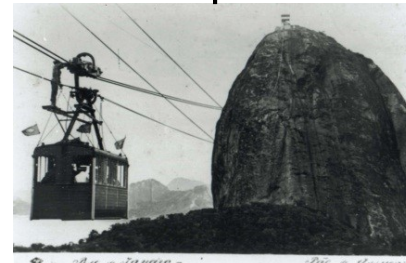
2009



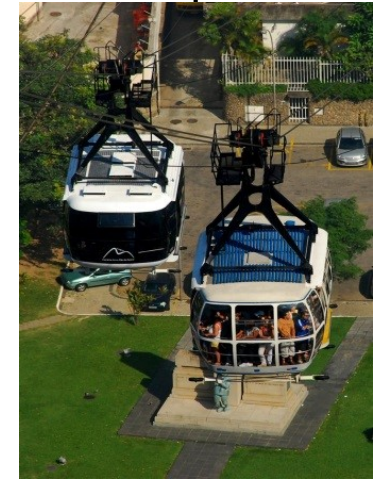
Register of the Company



Upgrade – The New Cable Car



Opening of the 1^o Cable Car



New Cabins and Controls



National Exposition in the Neighborhood – The Idea

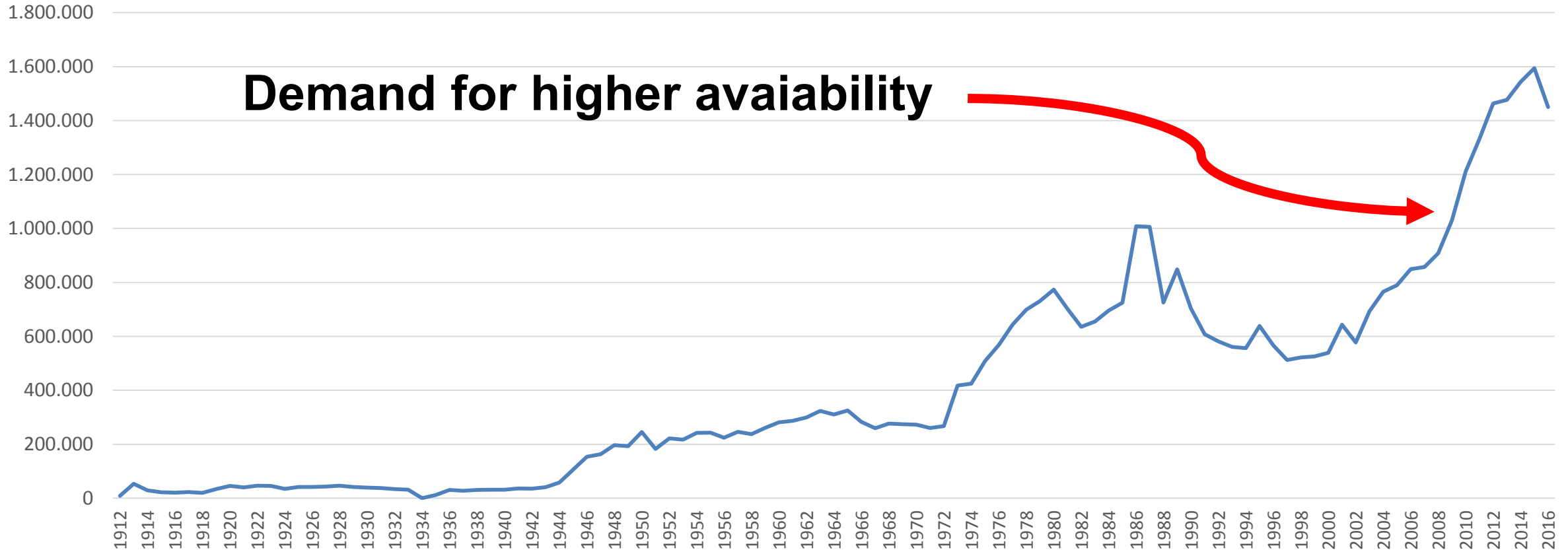




Visitors



Visitors each year



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Operational Data



- Operating time from 08 am. to 09 pm – **13 hours/day**
- **Every day** of the year – closing only for special operations
- Technical availability **above 99,8% each section**
- General availability about **99,7% each section**
- Operational team **38 workers**
- Technical team **35 workers**





Basic Concepts



- Development of infra-structure
- Increased know-how
- Team constantly trained
- Autonomy
- Capacity to make decisions
- Workshop
- Equipments
- Spare parts management

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Development of Projects



- Increased know how
- Water/Sewer aerial system;
- Material cable car;
- Winches 3 Ton, 5 Ton and 10 Ton;
- Funicular for disables; etc



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Special Operations

- Lower shutdown time
- Higher knowledge of personal
- Higher commitment of the team
- Development of own equipment
- Examples: New controls – shutdown 1 week, new cabins – no shutdown, cable changing – 8 track cables in 6 weeks



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Difficulties x Advantages



- **Legal conditions**
- **Costs**
 - Personal
 - Night work
 - Equipments and material
- **Responsability**
- Lower shutdown
- Media and brand visibility
- Less dependance from manufactures
- Quick response for technical problems
- Optimization for others maintenances





Conclusion



- More than a maintenance structure, it's **designing and fabrication** in a lower level
- **Distance to manufacturers** is a key factor
- Option for more **flexible maintenance plans**, according to client needings and capacity
- The key word is **autonomy**





THANK YOU
GRAZIE MILLE