STATIONS OF GAUTRAIN PROXIMITY, ARCHITECTURE AND SERVICES

Olivier Martin
Director, Railway pole, Bouygues Travaux Publics, France
Tel (33) 6 6048 3228 – Session 2B
Project profile

- Client: Province of Gauteng (South Africa)
- Concession = 5 + 15 years (mix public/private finance)
- Civil Contractor: Bouygues / Murray-Roberts / SPG
- E&M Contractor: Bombardier / SPG
- Operator & Maintainer: RATP / Bombardier / SPG

Mr. Martin – Bouygues Travaux Publics – Gautrain stations

2000:02 PLANNING
2002/05 TENDER
2005/06 PRELIM ENG
2006/11 BUILD
2011/26 OPERATE
2026 TRANSFER
Project Engineering

- Length 77km = 15km tunnel + 10 km viaduct
- 10 stations = 3 underground, 3 elevated, 4 at grade
- Speed 160kph = travel time N-S 42min E-W 15min
- Bouygues TP = Technical leader for Engineering & Design

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17-18 October 2013
Station identity & symbolism

- The tree of life
- The gold rush

Architects: Siyakha – Bentel Associate Int. and TPS

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17-18 October 2013
Branding and signaletics

- Modern, simple, natural, friendly, comfortable
- Care to the Customer, appeal to the car users.
Airport station - OR Tambo

- Station in airport
- Terminus & elevated
- Fly over roads, hotels, car parks
- Direct access from airport exit
- Midway between local & international
- Time + care = service to people

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17-18 October 2013
Sandton station – business

- Central station & Airport link
- Safe & secure
- Deep station
- Fast escalator & large lifts
- Light display & wide platforms
- Fast connexion to all 3 directions

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17-18 October 2013
Pretoria station - historic

Capital city, historic blue train, university campus
Mushroom park - builder dream

When a construction site becomes a recreational, pleasant and natural area... project is life.
Traffic and operation

Performances are all met for train and feeder:

<table>
<thead>
<tr>
<th></th>
<th>Train</th>
<th>Bus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>99,5%</td>
<td>99%</td>
</tr>
<tr>
<td>Punctuality</td>
<td>95,0%</td>
<td>95%</td>
</tr>
<tr>
<td>Overcrowding</td>
<td>105%</td>
<td></td>
</tr>
<tr>
<td>Age of bus</td>
<td>98%</td>
<td></td>
</tr>
</tbody>
</table>

45,000 to 50,000 passengers per weekday
15% of passengers go/come from Airport
17,000 bus passengers per day
30% increase during 1st year

When industrial and operational fitness becomes popular success... project is good for the country
Conclusion

- Engineered and built in 5 years, 20 consultants,
- Long design, heavy coordination & approvals,
- Hard work, noise, dust, night, stress, cold, 24/7, 86 construction sites,
- When train ready & public there, all is forgotten.
- When people live with Gautrain, all is happiness.

- Gautrain is the largest single transport project in Africa and 4th in the world, highest for performance & services.
- In the last 20 years, Bouygues TP has closed 20 major projects (Sydney, Reims, Gautrain, Montpellier HSL) for a total ~20B$.
- Bouygues TP is a partner of Railenium.
The art of getting there fast...

Thank you for your kind attention

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