



Transportation Project
Subway - Stockholm, Sweden

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September 24, 2009

Subways

- generally unpleasant
 - damp, dirty, aged
- still popular
 - affordable
 - rarely affected by weather
 - no traffic
- needs improvement!



How do subways contribute to green design?

- Reduction in greenhouse gases
- Less traffic congestion
- Underground
- Use electricity



How does Stockholm's subway contribute to green design?

- All subways run on electricity from renewable resources
- Reduces greenhouse gases
- High ridership



Stockholm's Congestion Tax

- tax on vehicles entering or leaving the city
- 70% of trips during rush hour are now made by public transit
- lowering of emissions by 10-14%
- air quality has been improved by 2-10%



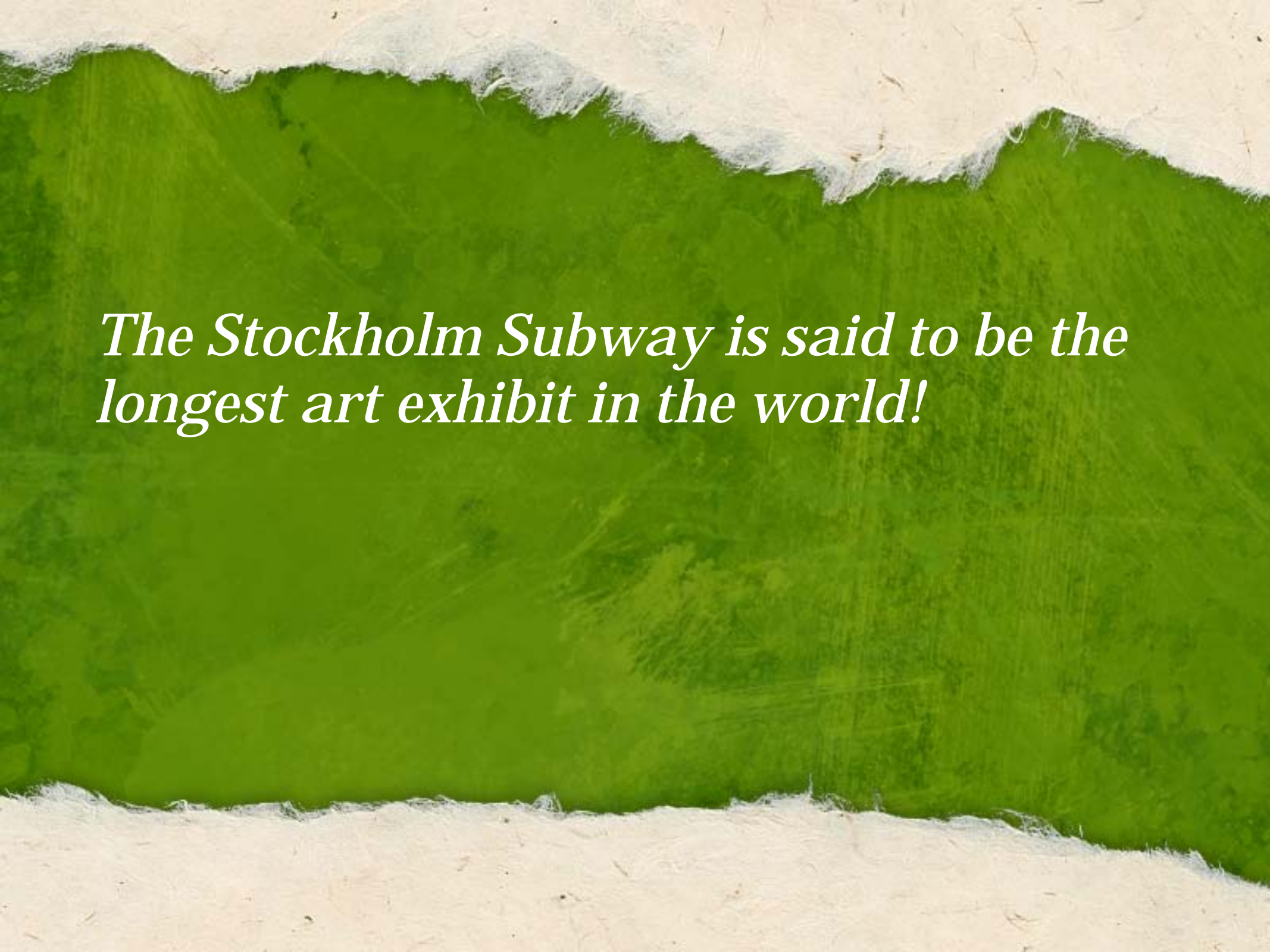
Beatley, 109
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Can a subway have a pleasant atmosphere?

Yes, in Stockholm!

- clean
- well lit
- informational
- artwork



The image features a central rectangular area with a vibrant, textured green surface, possibly representing a piece of art or a specific material. This green area is framed by a light-colored, fibrous material that appears to be torn paper or fabric, with irregular, jagged edges. The overall composition is simple and focuses on the contrast between the bright green and the off-white background.

The Stockholm Subway is said to be the longest art exhibit in the world!

Over 90 of the 100 subway stations in Stockholm have been decorated with sculptures, mosaics, paintings, installations, engravings and reliefs by over 150 artists.



Photo [from SL's free metro art booklet]: Platform of T-Centralen station on the Blue Line, designed by Per Olof Ultvedt in 1975.



natural rock, cavernous, bright color



More examples of subway art...

Some points to debate...

Costly

- Congestion Tax System
- Subway maintenance
 - graffiti free
 - clean
- new tunnels and commuter lots

Unhealthy?

- Possible cases of lung cancer among subway drivers

Conclusion

- aggressive efforts towards sustainability
- first winner of European Green Capital Award in 2010
- Future: attempt to harvest energy from commuters!



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Thank you!