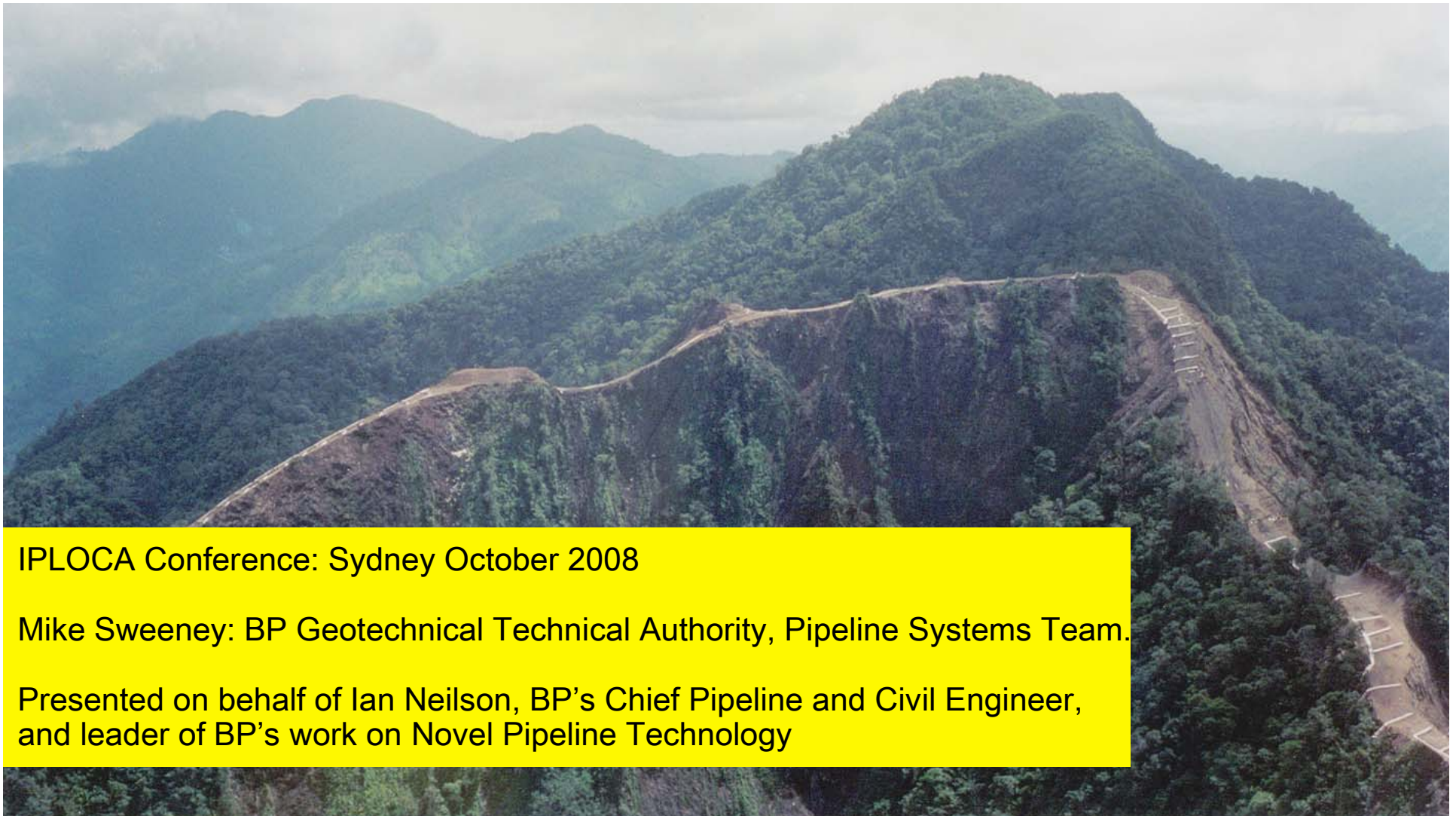


BP Award For Innovation



IPLOCA Conference: Sydney October 2008

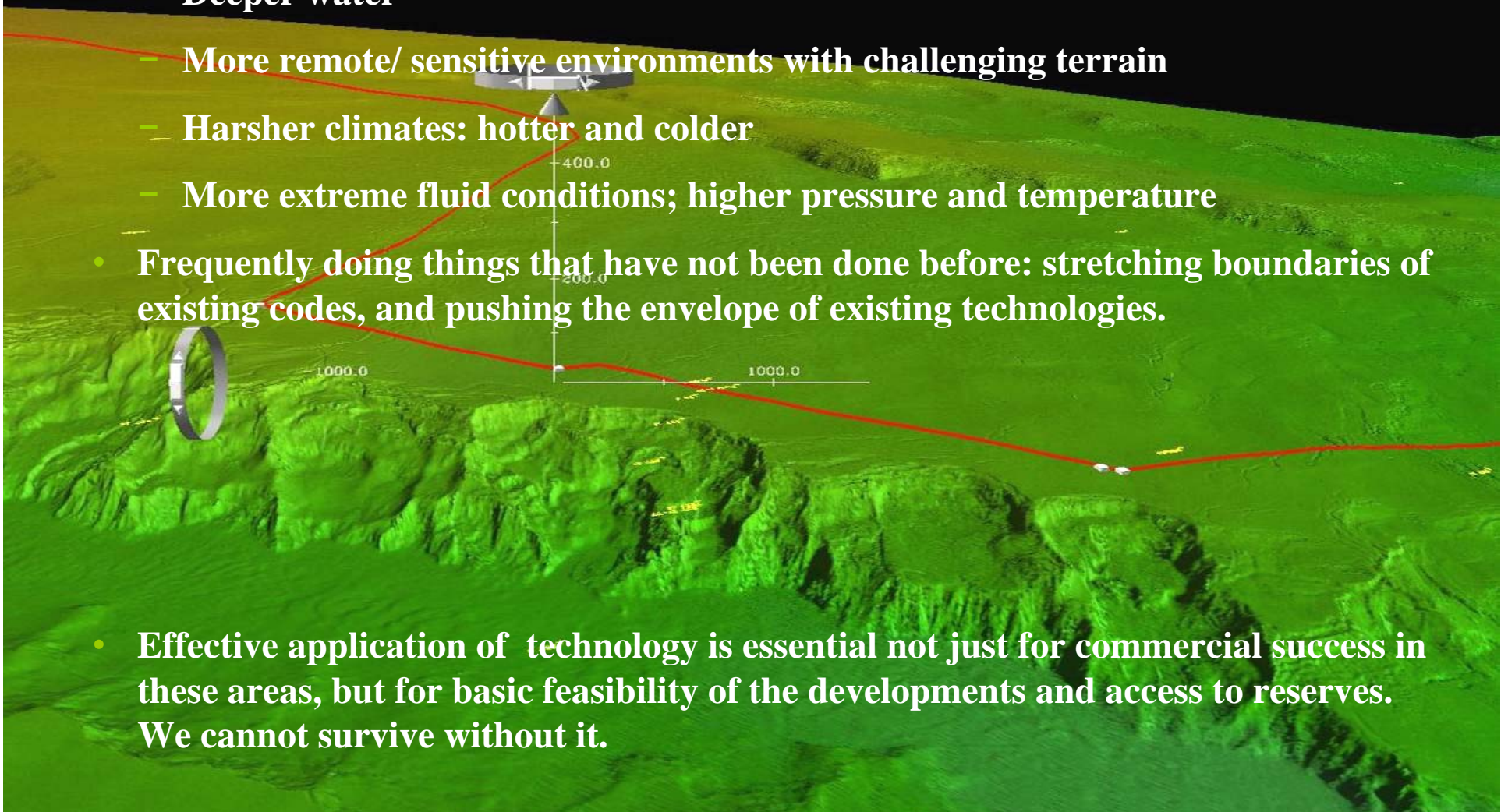
Mike Sweeney: BP Geotechnical Technical Authority, Pipeline Systems Team.

Presented on behalf of Ian Neilson, BP's Chief Pipeline and Civil Engineer,
and leader of BP's work on Novel Pipeline Technology

Technology context in BP



- **Increasingly Operating in Tougher Environments:**
 - **Deeper water**
 - **More remote/ sensitive environments with challenging terrain**
 - **Harsher climates: hotter and colder**
 - **More extreme fluid conditions; higher pressure and temperature**
- **Frequently doing things that have not been done before: stretching boundaries of existing codes, and pushing the envelope of existing technologies.**
- **Effective application of technology is essential not just for commercial success in these areas, but for basic feasibility of the developments and access to reserves. We cannot survive without it.**



Pipeline Innovation In BP



- The need for innovation in pipeline design and construction is clear
- BP have been active in this area for more 10 years now, driving several key developments-
 - Advanced welding technology
 - High strength steels
 - New approaches to evaluating terrain and geohazards
 - Novel Construction Initiative
- **We could not have done this without the help of all of you**, and we are not in it for the short term. IPLOCA's mix of talents is unique and we want to encourage them. BP are delighted to support IPLOCA with this award
- We look forward to seeing it stimulate further technology advances for the overall benefit of all the industry



The Award



7 entries were received, and most parts of the supply chain were represented.

There was a strong bias towards heavy equipment, particularly incremental change to established concepts. The softer issues, such as planning, design, data acquisition, and project management were not represented. Feedback on the Novel Construction Initiative suggests these softer areas have the potential for quick wins, and the judges would encourage better representation in these areas in future.

All the entries had good ingredients, and the choice was difficult. Judged against the criteria which Roberto has outlined, it was decided to make 2 awards: for Runner Up, and Winner.

