

bp leads open-source digital project to improve industry safety and efficiency

GIGS (Geospatial Integrity of Geoscience Software) is an innovative toolkit designed to drive the development of high quality spatial technologies for use in the energy sector.

The GIGS framework has become the defacto source in the industry for best practice and reference data for anyone building geospatial applications, such as bp's OneMap platform.

Organisations adopting the framework include ExxonMobil, Total, Petrobras, Equinor, Google, Boeing, OSDU, OGC, EIVA and ESRI.

bp DataWorx's Josh Townsend led a cross-industry Task Force of specialists to modernise a new version of GIGS and released the toolkit as open-source via the IOGP (International Association of Oil and Gas Producers) in early 2022.

GIGS brings tangible benefits to bp and the industry by:

- Improving safety performance through spatial risk mitigation
- Lowering emissions and energy usage by ensuring digital and operational efficiency
- Reducing resource utilisation by facilitating intelligent operations

Find out more on bp Create [<https://create.bpglobal.com/section/technologies/tools/gigs>] or from the Geospatial CoP [<https://bp365.sharepoint.com/sites/cops/GIM>]

The image shows a video player interface. At the top, there are logos for IOGP, bp, and PETROBRAS. A purple banner reads "Geomatics in a low carbon future: emerging technologies for deepwater survey and geospatial operations". The video player shows a man, Josh Townsend, speaking. To the right, a slide titled "GIGS IN A LOW CARBON WORLD" is displayed. The slide lists "Geospatial integrity enables..." with four categories: Operational efficiency, Digital efficiency, Risk mitigation, and Intelligent operations. These categories point to a central green circle containing the text "Lower emissions, Less energy, Fewer resources".

A few relevant links:

<https://www.geobusinessshow.com/events/trust-your-digital-location-intelligence-with-gigs-how-iogps-open-source-geospatial-integrity-of-geoscience-software-testing-framework-can-assure-and-improve-your-spatial-data-and-applications/>

<https://www.eiva.com/about/eiva-log/revising-gigs>

<https://www.iogp.org/blog/geomatics/new-gigs-platform-published/>

[https://oilit.com/papers/GIGS%202.0%20\(provisional\).pdf](https://oilit.com/papers/GIGS%202.0%20(provisional).pdf)

<https://www.iogp.org/blog/geomatics/trust-but-verify-new-geomatics-task-force-puts-geospatial-integrity-on-the-digitalisation-map/>

<https://web.yammer.com/main/threads/eyJfdHlwZSI6IlRocmVhZCIsImkljoiMTQ5ODEyMDA2OTczNDQwMCI9>

<https://web.microsoftstream.com/video/cdb98a78-9b59-4422-8c2f-3bf9c9ca75ad>

<https://web.yammer.com/main/threads/eyJfdHlwZSI6IlRocmVhZCIsImkljoiMTI2OTMwOTY0NzZmOTUyMCI9?search=iogp%20gigs>