

# MAKING FLOOD SCIENCE USABLE.

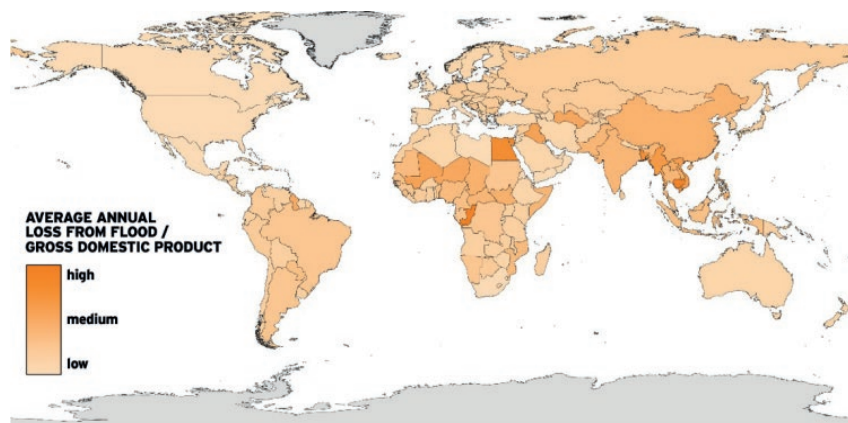
The need to be able to access the latest and most comprehensive flood model data on a global scale is evident. In recent model investigations JBA found that of the top 20 countries at risk from flooding, nine are in Africa, eight in Asia and three in South America - three regions which have so far had very limited flood model coverage. Those eight countries in Asia hold more than 60% of the population at risk to inland flood annually in the world and account for almost 50% of global flood losses.

Building on the availability of our Global Flood Map, last year JBA Risk Management introduced the world's first probabilistic Global Flood Model, giving insurers improved insights into flood risk and consistent loss quantification worldwide. Furthermore, the model's components, which fit seamlessly within the Oasis LMF, are enabled by JBA's ground-breaking **FLY** Technology which facilitates unprecedented customisation, allowing users to adjust almost all model parameters and settings to run the Global Flood Model in line with their own view of risk.

## Accessible Innovation

Making this kind of best-in-class flood science accessible and easy to use is a core objective for JBA. Our collaboration with Oasis makes this possible. The open source nature of the Oasis LMF is the ideal format through which the user can access JBA's revolutionary Global Flood Model and **FLY** Technology.

As well as giving access to a highly-regarded and widely-recognised platform and user community, being able to run models within Oasis means JBA can focus on our area of expertise - flood risk science - whilst also benefitting from additional Oasis tools and features, like the Financial Module and reporting functions.



## Promoting Greater Resilience

The ability to model areas that have been previously unmodelled opens up the opportunity for far greater insight around flood risk not only for the re/insurance industry, but for governments and NGOs with regard to Disaster Risk Finance.

The latest collaboration between JBA and Oasis includes flood modelling for Bangladesh as part of the Oasis Climate and Catastrophe Risk Assessment For Asia project. **Claire Souch**, project lead at Oasis, explains:

*'The Asia project is supported by the German Federal Ministry for the Environment International Climate Initiative (IKI). It's a multi-national project involving the UK Met office, Potsdam Institute for Climate Impact Research (PIK), the Bangladesh University of Engineering and Technology and the International Union for Conservation of Nature to co-develop cyclone, storm surge and flood models for the Bangladesh government to support improved risk management and the development of insurance schemes to protect from the rising costs of disasters'.*

With this and other similar projects, we endeavour to work collaboratively to promote greater, more sustainable resilience within the industry.