

XDI PRODUCTS

The XDI Platform enables standard products – such as reports, maps and data sets – for physical climate risk to single or multiple assets



Each product addresses a specific need for different decision makers, and is available as a once-off purchase or as outputs within a larger project.

SINGLE ASSET REPORTING

EASY XDI REPORT

An EasyXDI report provides single asset analysis. EasyXDI allows an asset owner or developer to check climate risk exposure, vulnerability and change in risk over time before proceeding with development, maintenance or purchase. Specify the asset location and type, click search, and results are generated within minutes and sent to your inbox.

- Free for evaluation
- User enters location and chooses an asset type
- Provides Asset Risk Rating and Value at Risk
- Available as a web app and pdf report
- Pay with a credit card online

SINGLE ASSET REPORTING

ADAPT XDI REPORT

Adapt XDI allows a user to customise the engineering and construction details of a single asset in order to test and compare the effectiveness of different adaptation options. This allows a more complex picture of failure probabilities in response to specific weather events (which hazard, how extreme). Results compare adaptation pathways by capex and opex outcomes, net present value and timing of adaptation actions.

- Cost-benefit-analysis, discounted cash flow and NPV
- Asset customisation allows user to test different adaptation actions
- Hazard breakdown shows which hazards present the risk to the asset
- Annual data from 1990 to 2100
- Available as a web app and pdf report
- Pay with a credit card online

SINGLE ASSET REPORTING

XDI LARGE SITE ANALYSIS

For some larger assets, a single point analysis is too narrow. An XDI Large Site Analysis is ideal for assets such as a hospital or industrial estate that may be spread over a large area and comprise several different types of individual assets, for example; buildings, machinery and roads. Each of these will respond differently to climate hazards, and in some cases the hazards themselves (eg: flooding) and may vary widely around the site.

- Test the hazards across a large land parcel
- Test location options for planned assets to avoid current or future hazards
- Annual data from 2020 to 2100
- Identify risks to different asset types
- Determine the best designs and construction materials for a planned asset to ensure that it is fit-for-purpose in its intended location
- Available as a web app and pdf report

SINGLE ASSET REPORTING

CROSS DEPENDENCY ANALYSIS

Cross Dependency Analysis links an asset to critical infrastructure and identifies transferred risk. Power supply, transport networks, and water supply are all examples of critical infrastructure on which operations depend. Cross Dependency Analysis is visualised in XDI Globe, by plotting an organisation's asset information against critical infrastructure assets such as substations and telco nodes in the area. Where cross dependency risk is identified, the scale of risk transfer is quantified and opportunities for collaborative adaptation are noted.

- Assesses local hazards and risks for a wide area around your asset
- Plots your confidential asset data within its supply chain context in a secure platform
- Provides annual data from 1990 to 2100
- Identifies which known supply assets are connected and assesses their risk data
- Tests adaptation actions to mitigate supply chain risk and critical dependency
- Available as web app and pdf report

SINGLE ASSET REPORTING

REGIONAL ECONOMIC EXPOSURE ANALYSIS

If an organisation is purchasing or developing an asset linked to the local economy, the long term outlook for the region is critical to the future prospects of the investment. A Regional Economic Exposure Analysis provides a long range view of productivity loss, business disruption levels and economic retardation resulting from extreme weather and climate change in a given area.

- Provides cross check of climate hazards to local economic activity
- Uses gridded data of economic activity around your asset or site
- Annual data from 1990 to 2100
- Forward looking test for economic retardation and disruption
- Ideal for testing climate pressures to local customer base

MULTIPLE ASSET REPORTING

COMPANY TCFD PHYSICAL RISK REPORT

An XDI TCFD Physical Risk Report provides the world's most powerful climate risk analysis, extensively curated to align with leading TCFD reporting practice as per BoE, EBRD, IIGCC and other guidance. It provides investment and engineering grade data on physical climate risk to a company's assets and benchmarks the company against its peers. Over 40 slides of analysis results are presented in slide format for ease of use in presentations and other company documents.

- Damage metrics:** Value at Risk, Technical Insurance Premium / Annual Average Loss, Number of High Risk Properties
- Spatial heat mapping of risk
- Disruption metrics:** Failure Probability and Productivity Loss
- Annual data from 1990 to 2100

MULTIPLE ASSET REPORTING

MULTI-COMPANY INTELLIGENCE REPORT

This report accesses our database of thousands of companies to run a high level, aggregated climate risk analysis on a portfolio of companies. Ideal for financial service providers holding multiple investments across different sectors and countries, this report shows a whole of portfolio position in terms of damage-based Value at Risk, Failure Probability and Productivity Loss.

- Benchmarks the portfolio against XDI sample set of equities
- Identifies high-risk companies, countries and sectors in the portfolio
- Enables company specific reports on-demand.

MULTIPLE ASSET REPORTING

XDI MASTERPLAN REPORT

Suitable for medium to large scale land use planning, this analysis pre-tests the climate resilience of property and infrastructure developments at the planning stage. The report assesses climate vulnerability for various asset types meshed across the area, allowing planners to ensure either safe placement or resilient design. This can include existing, planned or hypothetical asset data.

- Detailed risk maps for each asset type, with changes due to climate change shown
- Detailed risk maps for each hazard
- Detailed risk maps to show the effectiveness of adaptation
- Ideal for planning departments in government or private sector developers
- Annual data from 1990 to 2100

MULTIPLE ASSET REPORTING

RESIDENTIAL MORTGAGE PORTFOLIO REPORT

XDI works with Climate Valuation to provide portfolio analysis of residential mortgage books in all major countries. The analysis includes all properties by address across all screened hazards providing a risk score based on insurability today, at the end of the mortgage term, and at the end of the estimated building life. The analysis can use Climate Risk Engine standardised building types and values or incorporate client data on property value, land value, building age and construction materials.

- Presents risk profile of the whole portfolio based on Technical Insurance Premium, Climate Adjusted Value and Value at Risk %
- Technical Insurance Premium informs serviceability stress
- Individual property reports on demand
- Climate Adjusted Value: projected reductions in value due to climate change which can alert lenders to Loan to Value ratio and negative equity risks
- High speed point-of-sale screening service available to red-flag high risk properties before a mortgage is issued

REPORTING RISK METRICS

- ▶ Technical Insurance Premium (TIP)
- ▶ Value at Risk (VAR%)
- ▶ Climate Adjusted Value (CAV)
- ▶ Number of High-Risk Properties (HRP#)
- ▶ Percentage of High-Risk Properties (HRP%)
- ▶ Damage: Failure Probability (FP%)
- ▶ Disruption: Productivity Loss (PL%)

XDI Products are available as a report (pdf or ppt), data file or web app. For more information or a pricing sheet, contact info@xdi.systems.

