

## Resilience modelling and simulation software

*Models transmission of organisational risk and allows repeatable time-lapse simulation*



INONI RES™ (Risk Environment Simulation) is an online disruption simulation tool. It provides insight into the ways organisations are affected by disruptive events. It lets you propose and evaluate what-if conditions, building organisational resilience through safe experimentation.

### Graphical model

RES builds a graphical resilience model of your business. It maps the dependency pathways that link organisational components, from systems and skill-sets through to stakeholders and suppliers. RES allows you to manipulate these, creating libraries of disruption scenarios and resilience strategies.

### Efficient data collection

RES is an INONI functional add-in, providing a secure and intuitive way of collecting dependency and impact-related information. Joining with INONI means you can easily collect and work with data from across the organisation, reflecting changes as they happen.

### Powerful simulation

RES allows you to experiment with organisational data. It provides:

- Cause-effect representation of dependencies
- Multiple scenario and strategy definition
- Layered representation aligned with ISO 22301
- Sliced representation, allowing segregation of data
- Time-lapse repeatable simulation runs
- Quantified analysis
- Multiple self-defined impact types
- Object behaviour representation and modelling
- Drag-and-drop object positioning
- Colour-coded disruption flows
- INONI configurable reporting
- RTO calculation and optimisation

### Risk Management

Imagine you could assess risks so accurately that you were always able to buy a best fit insurance policy at minimum cost. It would mean you never over-spend on your defences or over-react to situations that encourage you to buy. It would mean you leave no gaps in your strategy, hedging perfectly so your risk appetite is always perfectly satisfied.

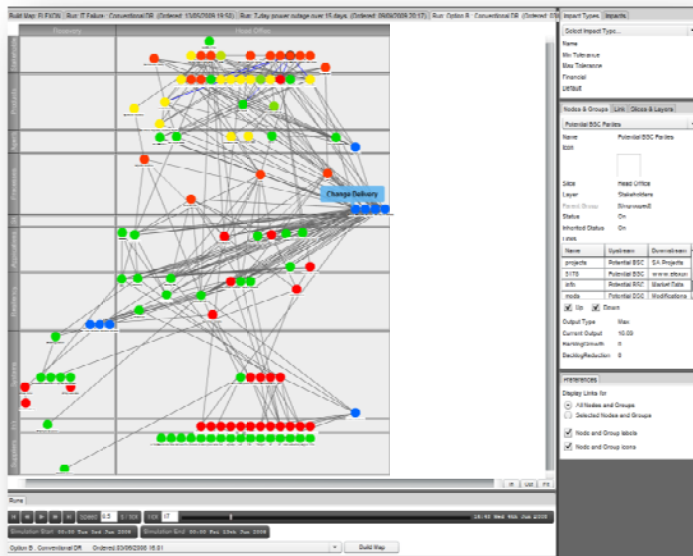
We can't predict the future, but INONI's unique software-embedded methodology takes you a step closer, allowing you to express your situation with appropriate precision. By using RES™ you can repeatedly represent many scenarios, from trivial to worst-case, quantifying the impact of each in meaningful terms so you know what's at stake.

To do this, you use RES™ to build a simulated battery of potential defences, initially considering only measures whose cost is potentially affordable. You re-run your model and on each iteration decide whether the reduction in impact justifies the cost of provision. When it does, you're home and dry.

## RES™ maps risk

Complexity means that few of us can visualise all the ways in which risk is transmitted and accumulates within the business. RES™ opens a unique analytical window offering transparency at any level of detail that may be required. It lets you represent multiple flows between entities, modelling the ways in which each is affected by a failure.

The RES™ Map (below) is the primary interface for graphical simulation. It lets you represent the organisation as a series of layers and slices, each cell populated with risk-bearing components such as processes, applications and suppliers. You define links between these that allow disruptive effect to flow between them. Consequently it's possible to see how a failure transmits, affecting other areas and ultimately, customers.



## Detects risk concentration

Single Point of Failure is a term used to describe organisational bottlenecks where risk becomes concentrated and unacceptable for the business. Many are identified and resolved by diligent managers, yet in most organisations a minority remain undetected. These are promoted and hidden by operational silos where a producer process misrepresents the ways in which its outputs contribute to organisational well-being and takes inappropriate or inadequate measures to protect them. RES™ lets you systematically validate the risk profile of any or all components in the model.

## Promotes improvement

Risk simulation is beneficial wherever complexity obscures true levels of exposure. This applies for all systems environments including organisations, supply chains, processes, technologies, skill-sets and so on. RES™ can be applied in each of these cases, simulating the entire risk profile. It actively promotes organisational improvement.

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## About INONI

INONI is a UK-based provider of business continuity and risk governance solutions. Our customers include blue-chip and government organisations in many areas including health, telecommunications, finance, education and the public sector.

Please contact us to arrange a demonstration

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