

# SurvINZ - A platform for surveillance applications

[www.esr.cri.nz/survINZ](http://www.esr.cri.nz/survINZ)



SurvINZ is a technology platform that allows organisations that monitor diseases and pests to access secure web based real time information integrated from a number of different sources (questionnaires, field observations, laboratory tests, sampling). The platform is designed for surveillance applications that require multiple agencies to enter, access and share data.



## What types of surveillance and monitoring activities SurvINZ cater for?

- Collection of observational, laboratory, sampling data
- Integration of data from different sources
- Monitoring of pests or diseases or environments
- Analysis of trends
- Reporting of information to key stakeholders
- Providing information to assist response to emergent issues

## What applications are currently hosted on SurvINZ?

Initial applications developed by ESR and hosted on SurvINZ include EpiSurv (New Zealand's national notifiable disease surveillance system), WINZ (Water Information New Zealand), and the Biosecurity New Zealand's Didymo Samples Database.

## How are applications developed on SurvINZ different to other applications?

Applications developed and hosted on SurvINZ provide software tools for scientific and technical staff to monitor the incidence of diseases and pests. These software tools allow staff to extract, tabulate, list, graph, summarise and map data easily and quickly. The temporal and spatial analysis of data is a particularly important component of surveillance systems and is a strong feature in the applications developed and hosted on SurvINZ.

## How can an application developed by ESR and hosted on SurvINZ talk to a client's existing internal information systems e.g. CRM system?

SurvINZ includes message brokering software that can be configured to move data from an application hosted on SurvINZ to an external application and vice versa.

## What data security and standards does SurvINZ use?

As a Crown Research Institute, ESR is bound by obligations and protocols to adhere to government-wide standards and procedures in the handling of sensitive health and confidential data. The SurvINZ platform and all related projects observe and adhere to all requisite security and confidentiality protocols.

## Background

ESR recognised the need for a holistic perspective in surveillance in order to provide more timely, accurate and complete data for use by the New Zealand public health sector. The need to provide cost-effective and integrated public health surveillance activities, combined with the emergence of new infectious diseases and bio-terrorism threats is driving change. These threats require:

### 1. New approaches to surveillance

- Enhanced surveillance - real time and/or near real time, early detection
- National and local perspective combined in the same application
- New analysis tools such as EARS (Early Aberration Reporting System), standard and user-defined reporting, GIS and risk assessment
- Integration of information from international surveillance, community, hospitals, Public Health Services, laboratories, animal health, local bodies, water and wastewater surveillance, with the ability to add data from new sources quickly e.g. meteorological data and drug data
- Integration with syndromic and active surveillance systems
- Links for contact tracing and contact management
- Sharing and feedback of information to users

### 2. New approaches to coordinated response

- Whole-of-government response
- Rapid response
- Joint agency response
- Cross-sectoral response

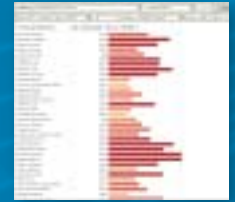
The SurvINZ platform can assist with integration, flexibility, reliability and efficiency in surveillance data delivery on a national level and local level.

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Does your organisation monitor or undertake surveillance of pests and diseases?



Does your organisation collect monitoring and surveillance data that you want to be able to easily access, analyse and report?



Do you need web based access to accurate, up to date surveillance or monitoring data that is available in real time i.e. as soon as the data is entered into the online forms it is available for reporting?

Are spatial (geographic location or place) and temporal components an important aspect of your analytical needs?

Do you need tables, graphs and maps of your data to support your decision making?

Do you work with other organisations to collect and report on the same pests or diseases?



Do you have data from different sources that needs to be integrated for easy access and analysis?

Do you need a robust standards based approach to your data management?

# SurvINZ

## The answer to your surveillance needs.

ESRs recently built SurvINZ platform can be used to build and host applications to meet your requirements. ESRs specialist staff have many years of experience and expertise in surveillance data collection, information management, analysis and reporting.



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