A Micro to Macro SOLUZION System



SOLUZION Micro to Macro

The Macro SOLUZION is instigated by Governments, Military, Commercial and Agencies Stakeholders with the ability to install a network over a Community, Town, City, Region or whole Country. This provides a comprehensive robust sensor monitoring and communication system, maximizing the early warning response system to multiple hazard types

Cost of the Micro to Macro SOLUZION system:

The comparison between only a 'Million \$' to SOLUZION net work a City, and the potential casualty costs of a 1b\$ and the comparison between under '\$100' to install SOLUZION devices in the home and the price of a life, highlights how affordable and cost effective SOLUZION is, not only minimizing loss of life but also casualty \$costs to Administrations

Aim of the Micro SOLUZION:

- Enabling individuals and the community to purchase personal domestic sensor alarms
- Integrating freely into an installed network system and capable to stand alone with a range of easy to install devices for their homes and offices
- Creating an independent micro network system for their community



The 'SOLUZION' System

Is for

Governments, Military, Commerce & Industry, Agencies, Communities & Individuals

Distributed and Installed Globally by

'VERUS VICIS SOLUZION CONSORTIO'

[A Limited Liability Partnership UK No: OC356963]

Care-Life Institute' &

'Meihuan Tech Co Ltd' Chengdu

Global enquiries Post: 4 CRO 9XS London UK
Direct Tel No: +447703337946

Skype conference: delapom44

Global Info email:

soluzioninfo@soluzionsystems.com

Global web

www.soluzionsystems.com

Together Creating the Dynamic 'SOLUZION'





A Real Time Early Warning Natural Hazard Sensor
Communication System

What if everyone could get 'real time' early warnings of Earthquakes, Landslides, Tsunamis, Cyclones and Floods, straight into their homes, offices, hospital and school

SOLUZION now offers the opportunity to Governments, Emergency Services, Military and Industry to protect its citizens, personnel and employees and critical supply infrastructure!

"In fact SOLUZION offers this opportunity direct to every individual"

A dynamic solution of natural hazard event sensor integration and extensive alarm communication providing realistic early warnings

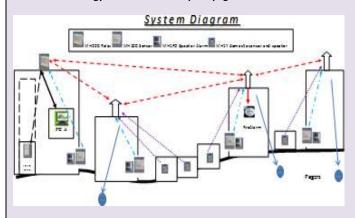
Together Creating The Dynamic 'SOLUZION'



Multiple Hazard SOLUZION Early Warning Integration

What the SOLUZION system provides:

An opportunity to integrate with other hazard type early warning systems providing a united communication and data integration facility, relaying real time warnings through Disaster Management Centres potentially to every individual within an affected region using Wireless, Ethernet, Satellite and SMS technology and additional bespoke pagers



SOLUZION system is designed to be installed within:

Residences – Homes, Hotels, Hostels, Apartments
Critical Community facilities – Hospitals, Health Centres, Schools,
Universities, Child Care facilities

Governance Facilities – Administration, NDMA's, Coordination centres Emergency Services Bases – Fire & Rescue, Ambulance, Police

Secured facilities – Prisons, Detention Centres, Banks
Commercial Centres – Offices, Street Retail, Malls, Department stores

Leisure facilities – Theme Parks, Cinemas, Theatres, Stadiums
Public Transport – Trains Stations, Bus Stations, Airports, Ferry Docks

Communications Infrastructure - Road Highways - Flyovers - Bridges, Causeways, Tunnels - Dams, Dykes, Embankments, Rail networks

Critical Supply - Power stations, Oil fields, Nuclear Facilities, Wind farms, Petrol Storage, Chemical Facilities, Gas storage

Utility and Supply lines – Oil lines, Electricity lines, Gas Lines, Fuel Stations
Antiquities - Places of Worship

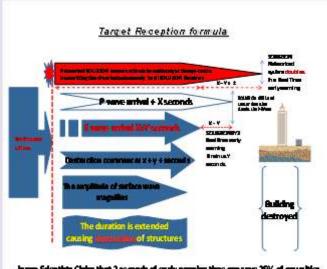
Military establishments – Bases, Barracks, HQs, Border Control Industry - Factories, Distribution, Storage, Servicing

"SOLUZION is designed to protect the individual"



SOLUZION Dynamics

The inherent dynamics within all SOLUZION sensors, relays, transceivers and software systems allows a multitude of future opportunities to develop and integrate as real time early warning technology and 'reliable prediction' science unfolds within multiple hazard types.



lapan Scientists Chira that 2 seconds of early warning time can save 25% of casualties.

5 seconds of early warning can potentially save 80% of casualty cleates.

How does **SOLUZION** create the early warning?

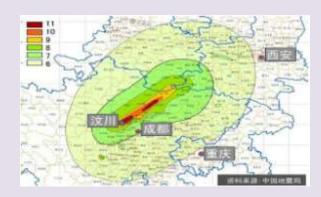
The sensors detect the P-Wave which travels ahead of the destructive S-Wave. Sensing and communicating the difference in the arrival of the two waves, allows a real time of multiple seconds early warning, enabling individuals to take immediate precautionary actions in preparation to the earthquakes arrival; these vital seconds of early warning makes the potential difference between life and death, ensuring that individuals are not taken by surprise whilst in work, at school or at home asleep

The 'crucial SOLUZION difference' is that it extends real time early warnings beyond all existing 'p-wave receiving' technologies by a radio broadcast from its' epi-centre devices leapfrogging the p-wave within the networked region providing up to twice the early warning time of other existing systems



Event Assessment SOLUZION Technology

A key Development is the "fast earthquake disaster reporting system", where the software is now able to report the intensity and distribution of quakes almost immediately after they strike using the networked SOLUZION System devices. It took more than 2 days to realize the disaster distribution in 2008. Now SOLUZION can determine the scale of a seismic event within three minutes inside a networked region.



Seismic event 'casualty cost' case study

Table 3 Value of casualties in the 1994 Northridge Earthquake, in 1994 US\$ (Porter et al., in press).

Count	Unit cost	Total cost
quired) 27	\$2,600,000	\$70,200,000
6	2,600,000	15,600,000
9	1,980,000	17,820,000
129	150,000	19,350,000
8, 200	40,000	328,000,000
16,400	40,000	656,000,000
221,400	5,000	1,107,000,000
	quired) 27 6 9 129 8, 200 16,400	quired) 27 \$2,600,000 6 2,600,000 9 1,980,000 129 150,000 8, 200 40,000 16,400 40,000

If injuries in the 1994 Northridge earthquake are representative of injuries in future U.S. events, then the economic value of future earthquake injuries—the amount that the U.S. government would deem appropriate to expend to prevent all such injuries—is on the order of \$200 million per year (in 2005 constant dollars). Of this figure, 96% is associated with nonfatal injuries.

SOLUZION could dramatically reduce the casualty costs.

"In Japan 2 seconds of early warning time can reduce casualties by 25% with 5 seconds warning potentially reducing casualty rates by 80%" Japan (REIC)

