STAKEHOLDER BENEFITS

Automatic Processing for Event Reporting and Archiving

Kinemetrics' Open Systems and Services (OSS) department is pleased to offer autopro; an automatic processing tool for generating well-designed, highly-customized PDF reports and archival of processed results.

Reports can be technical or non-technical. SMA REPORTS, for example summarizes an event recorded by a typical 3-component strong-motion station. Whereas SAFE REPORTS, adapted for buildings, include a front page that serves as a fundamental trigger for post-event response plans by providing non-technical information with concise response actions based on alarm level and expected distribution of potential damage. For any report style, additional pages can be populated with any number of available figures, tables and other processes. Custom processing is also available.

FOR POLICY MAKERS

Improve safety mandates for public and showcase cities growth

FOR OWNERS & OPERATORS

Save money by reducing downtime and continue business as usual

FOR FACILITY MANAGERS

Better manage decisions on evacuation and reoccupation

FOR OCCUPANTS AND RESIDENTS

Increase confidence in safety and avoid panic during state of emergency

FOR NETWORK OPERATORS
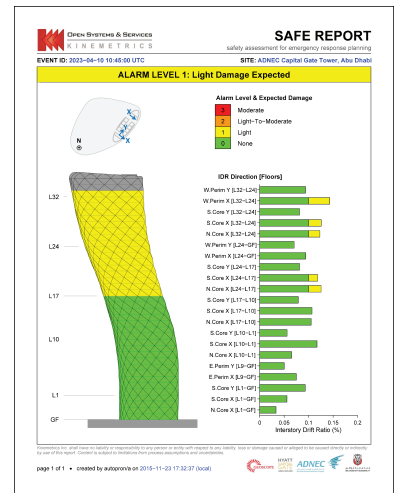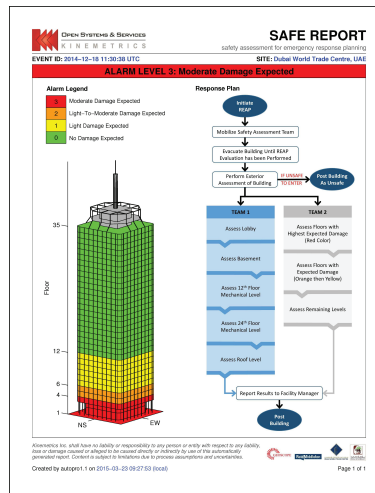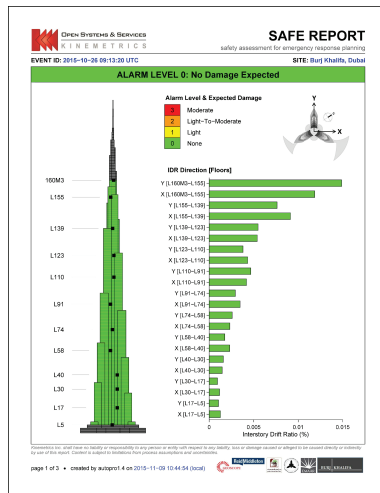
Receive immediate status on network healthy and functionality

FOR ENGINEERS

Receive immediate status on asset condition assessment

Automatic Processing

- Automatic processing of event data with standard, advanced and custom strong motion analyses
- Simple graphical user interface to select from automatic mode (waits for events and automatically runs) or manual mode (runs on user-selected files)
- Numerical integration to obtain velocity, displacements and inter-story drifts (for building deployments)
- Response Spectra & Fast Fourier Transform
- Multi-level X-Y particle motion, torsional responses and effects of rocking (for building deployments)
- Optimized for fast runtime
- Many more processes available and easily expandable to include custom processes

Automatic Reporting

- Highly customizable well-designed PDF reports with standard, advanced and custom figures/ tables
- Report on exceedance of PGA, PGV, PGD, Response Spectra, CAV, Inter-story Drift Ratio
- Custom schematic of sensor layout for quick reference
- Standard event information with space for custom logos
- Many more figures available and easily expandable to include custom figures

Automatic Archiving

- Archiving of raw and processed data and results, reports immediately available for email distribution
- Save data and processed results in multiple formats

SAFE REPORT

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OPEN SYSTEMS & SERVICES
KINEMETRICS

SAFE REPORT
safety assessment for emergency response planning

EVENT ID: 2014–12–18 11:30:38 UTC   **SITE:** Dubai World Trade Centre, UAE

ALARM LEVEL 3: Moderate Damage Expected

Alarm Legend

3	Moderate Damage Expected
2	Light–To–Moderate Damage Expected
1	Light Damage Expected
0	No Damage Expected

Response Plan
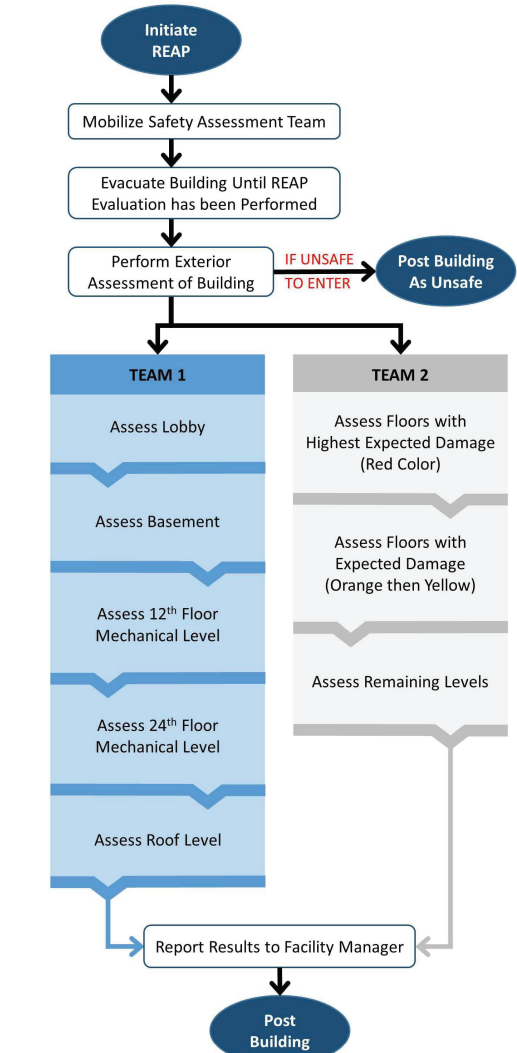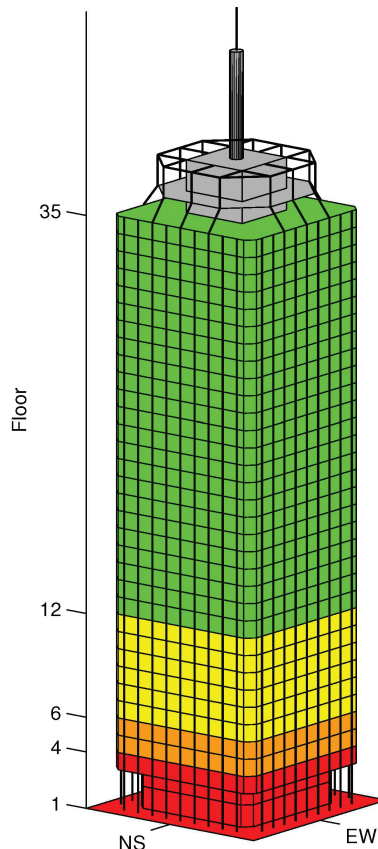
Initiate REAP
↓
Mobilize Safety Assessment Team
↓
Evacuate Building Until REAP Evaluation has been Performed
↓
Perform Exterior Assessment of Building → IF UNSAFE TO ENTER → Post Building As Unsafe

TEAM 1
Assess Lobby
Assess Basement
Assess 12th Floor Mechanical Level
Assess 24th Floor Mechanical Level
Assess Roof Level

TEAM 2
Assess Floors with Highest Expected Damage (Red Color)
Assess Floors with Expected Damage (Orange then Yellow)
Assess Remaining Levels

↓
Report Results to Facility Manager
↓
Post Building

Floor — 35, 12, 6, 4, 1 — NS / EW

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GEOSCOPE   ReidMiddleton   DUBAI WORLD TRADE CENTRE