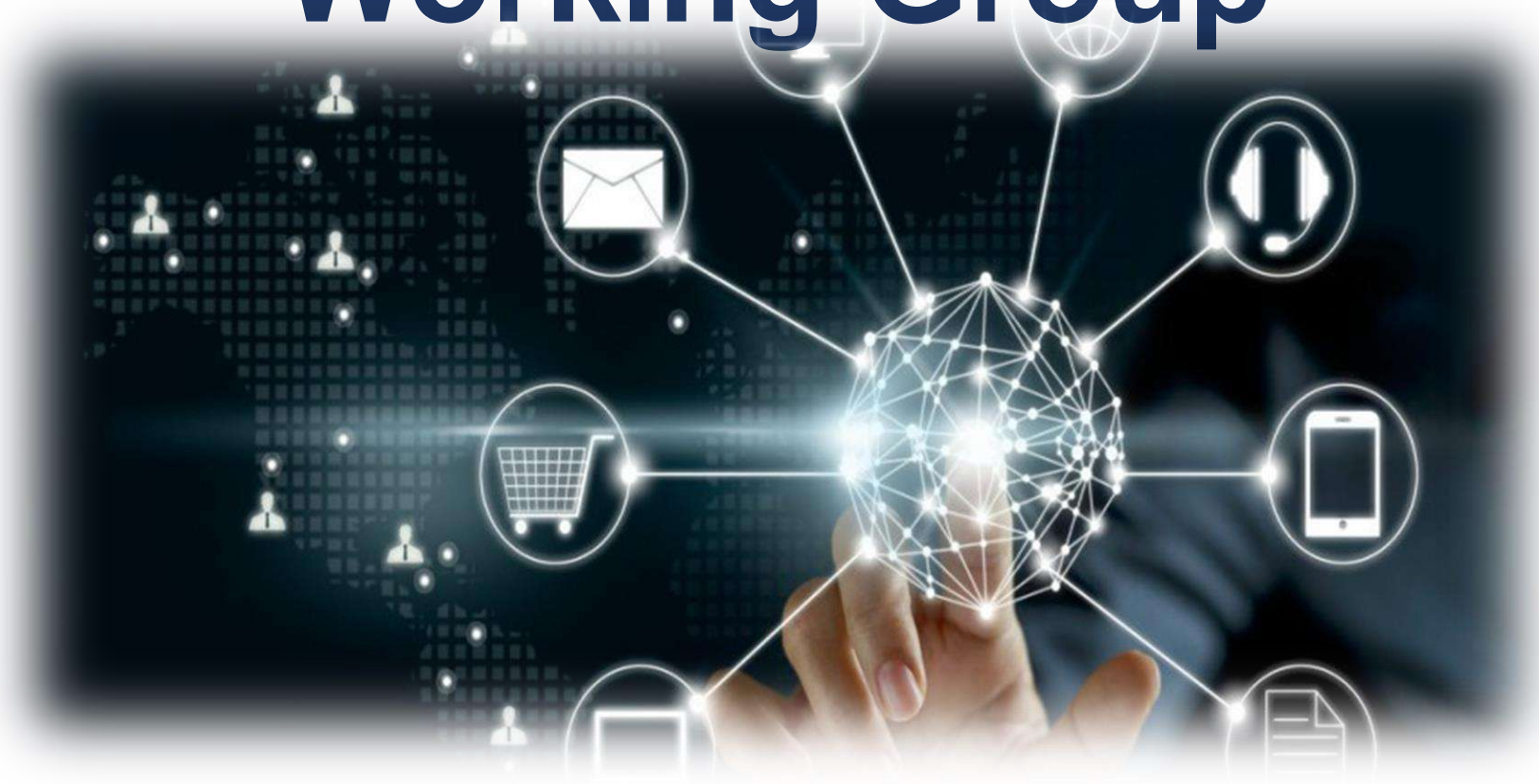




INSARAG

Information Management Working Group
ICMS Brief 2019

Information Management Working Group



IMWG Members

Name	Country	Position	Email
Peter Wolf	Germany	Chair	peter.wolff@evonik.com
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Jeffrey Hogan	Australia	Member	Jeffrey.Hogan@fire.nsw.gov.au
John Morrison	United States	Member	john.morrison@fairfaxcounty.gov
Luigi Bruno	OCHA	Member	brunol@un.org
Chew Keng Tok	Singapore	Member	chew_keng_tok@scdf.gov.sg
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One Technical Consultant from MapAction			

Information Management Working Group

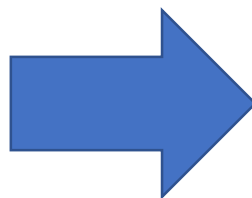
Strategic Vision

To provide an effective data management methodology that will ensure a coordinated & comprehensive collection, analysis & reporting capability, delivering the right resources to the right location in a timely manner.

Problem Statement

Larger and more complex USAR operations result in increased workload.

Situational awareness can potentially be lost if information gathered is not managed correctly through the response cycle.



**Information Management:
Standardised and systematic
approach to collect and report
information at all levels**

IMWG Strategic Objectives

1. Develop and implement an electronic field data collection capability
2. Provide an ability to analyse data resulting in actionable information
3. Promote timely, informed decisions to ensure coordinated taskings and resource management
4. Provide information in near real time that is accurate and relevant to all stakeholders
5. Develop a suite of tools that allow a comprehensive reporting and post deployment analysis across all phases of the event
6. To identify technology and systems that will enhance USAR coordination

Working Group Progress Report in 2019

1. Decision at Romanian TLM 2018 to move to Esri based ICMS (Information and Coordination Management System), replacing KoBo
2. Teams have become proficient in electronic data collection
3. The new ESRI system was used during the IER / MODEX Exercise in Tinglev, MODEX Portugal, EMEA ERE Baku
4. New system also tested in USA and NZL for USAR exercises
5. UCC ToT course introduced to ICMS in NZL, part of new syllabus
6. We found an interim sponsor for the next 5 years

Work Ahead in 2020

- 1. Improve and refine information collected through forms (optimization of the INSARAG Forms)**
- 2. Develop training materials and content for new system**
 - **Data Collection Training**
 - **RDC and UCC Data Interpretation and Analysis Training**
 - **Part of the UNDAC Training**
- 3. Review the SOP, Handbook, and user help files, adjustment to the new system**
- 4. Working close together with the TWG on the training program for 2020**
- 5. Working together with GRG on Guidelines 2020**
- 6. Implement an end-to-end solution, including data collection, analysis, dashboard, tasking and reporting**

INSARAG Information & Coordination Management System (ICMS)

- 1. ICMS is an end to end solution for Information management for INSARAG USAR teams**
- 2. Will be live and fully operational January 2020**
- 3. It includes (Stage1 delivered)**
 - **Field data collection (DCT – KoBo replacement)**
 - **UCC analysis and tasking functions**
 - **UCC application for sectorization and briefings**
 - **Quality assurance app for teams**
 - **A single point HUB for access to applications**
- 4. Future stages include**
 - **Squad level tasking and management from CP as well as Summary reporting, Audit etc.**
- 5. Managed by IMWG**
- 6. Next stages due Oct 2020 (TLM Poland)**

Current deliverable – ICMS (Phase 1 & 2) Oct 2019

ICMS

Phase 1: Infield Data Collection

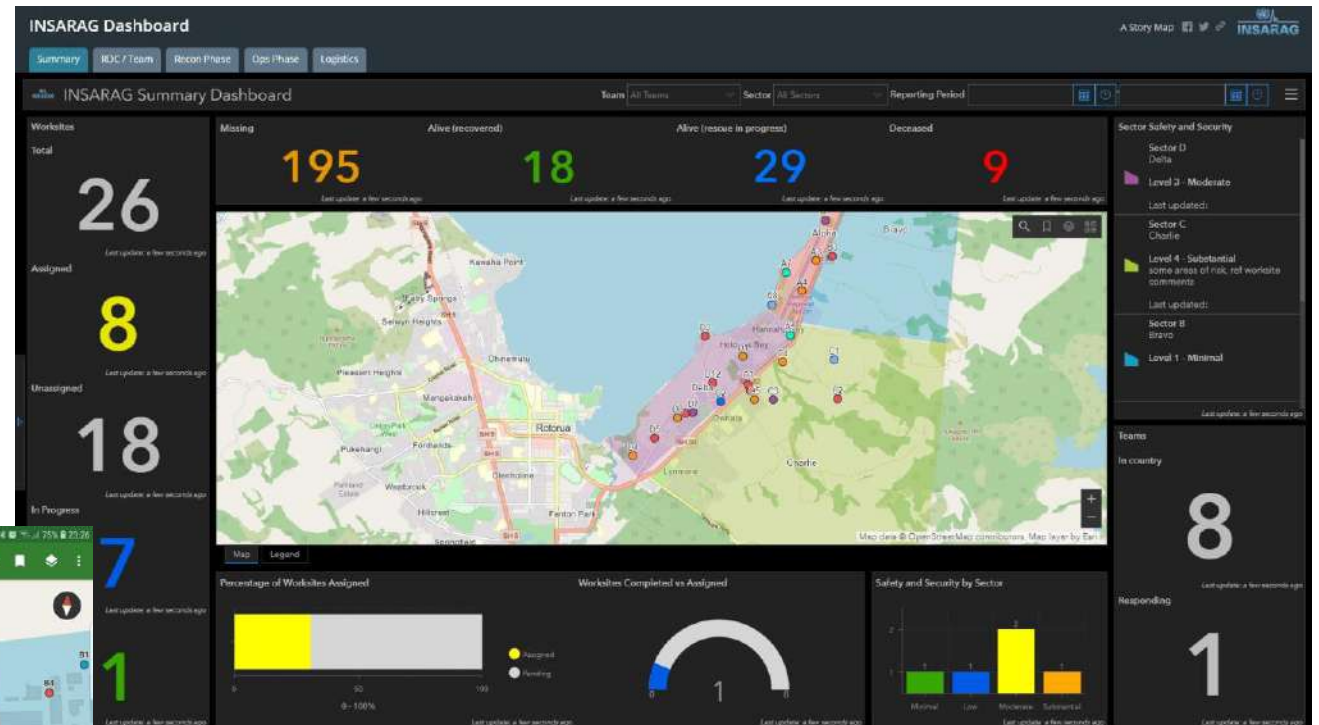
Phase 2: UC analysis and tasking

Phase 3: Reporting

Phase 4: Team level tasking

Phase 5: Audit and analysis

Phase 6: ??

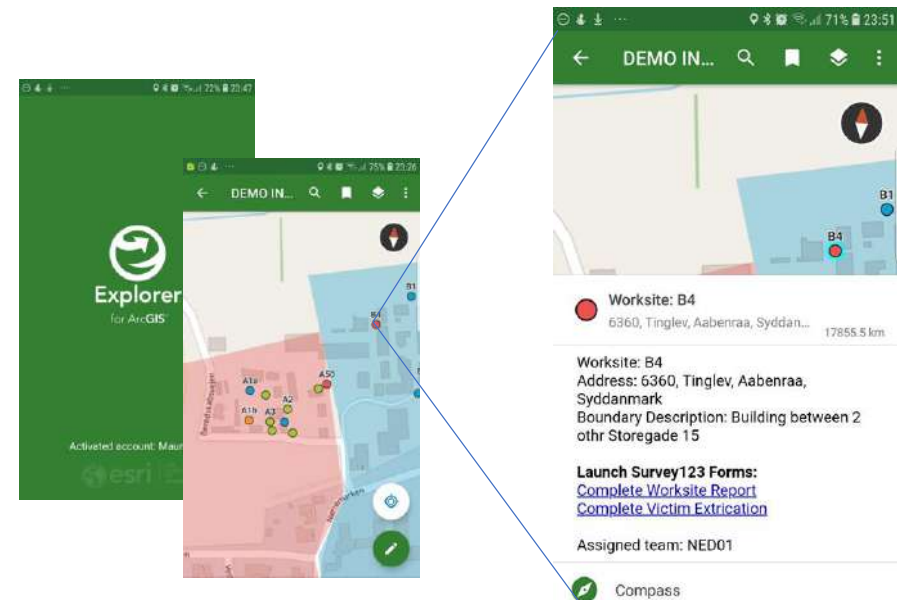


Current deliverable – ICMS (Phase 1) Data Collection Tools (DCT)

ICMS - DCT

Apps:

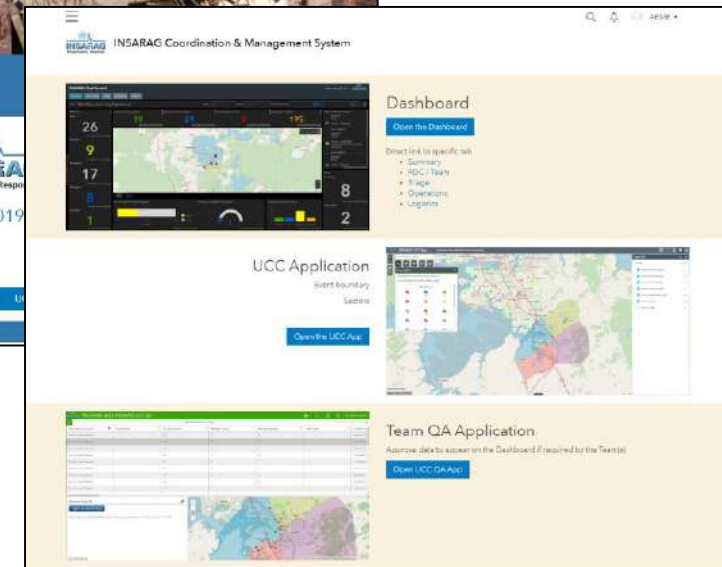
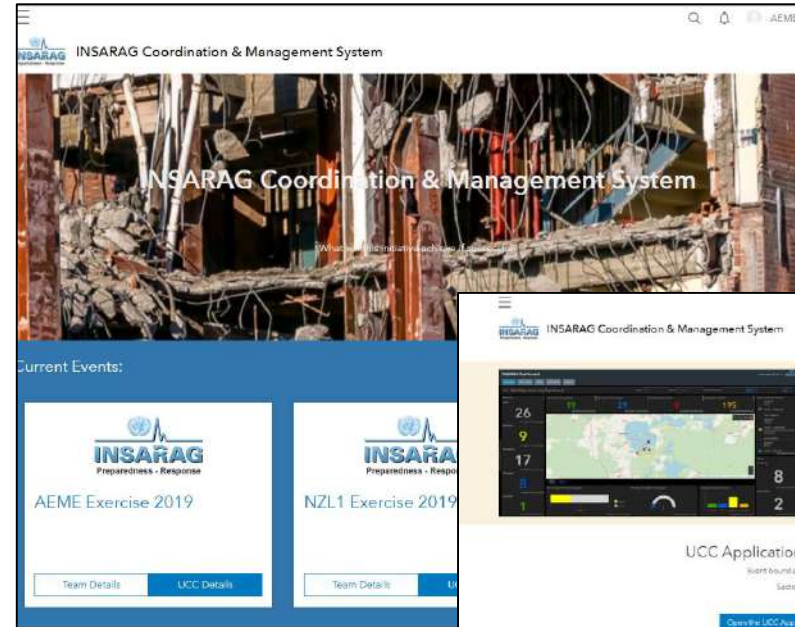
- **Survey123** (triage form)
- **Explorer for ArcGIS** – access to pre-populated worksite and Victim Extrications forms



Current deliverable – ICMS (Phase 2) ICMS HUB

ICMS – HUB

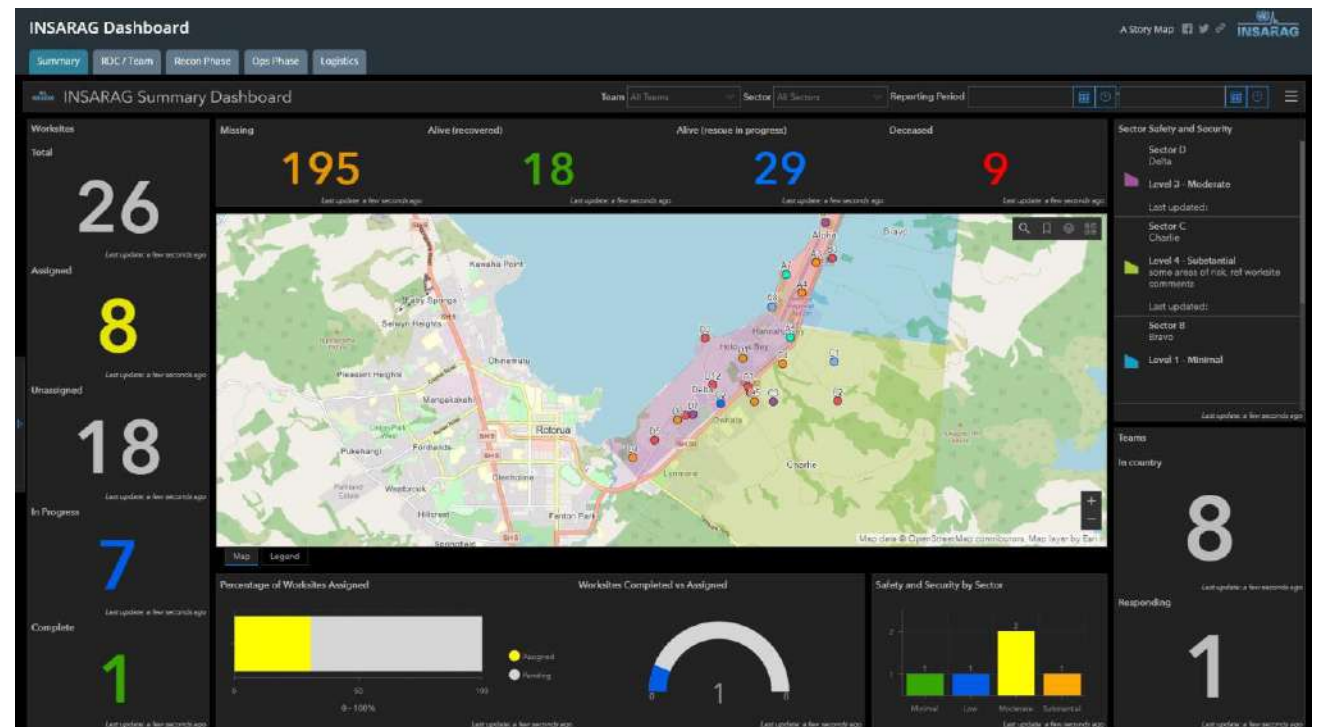
- Summary TAB Summary of information
- RDC/Team TAB: Current information on teams and RDC
- RECON Phase TAB: Triage information (task assignment information)
- Ops Phase TAB: Worksite information
- Logistics TAB: Resources requests & management function
- UCC Management Tool
- Survey 123 Reporting
- Team QA



Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – Summary

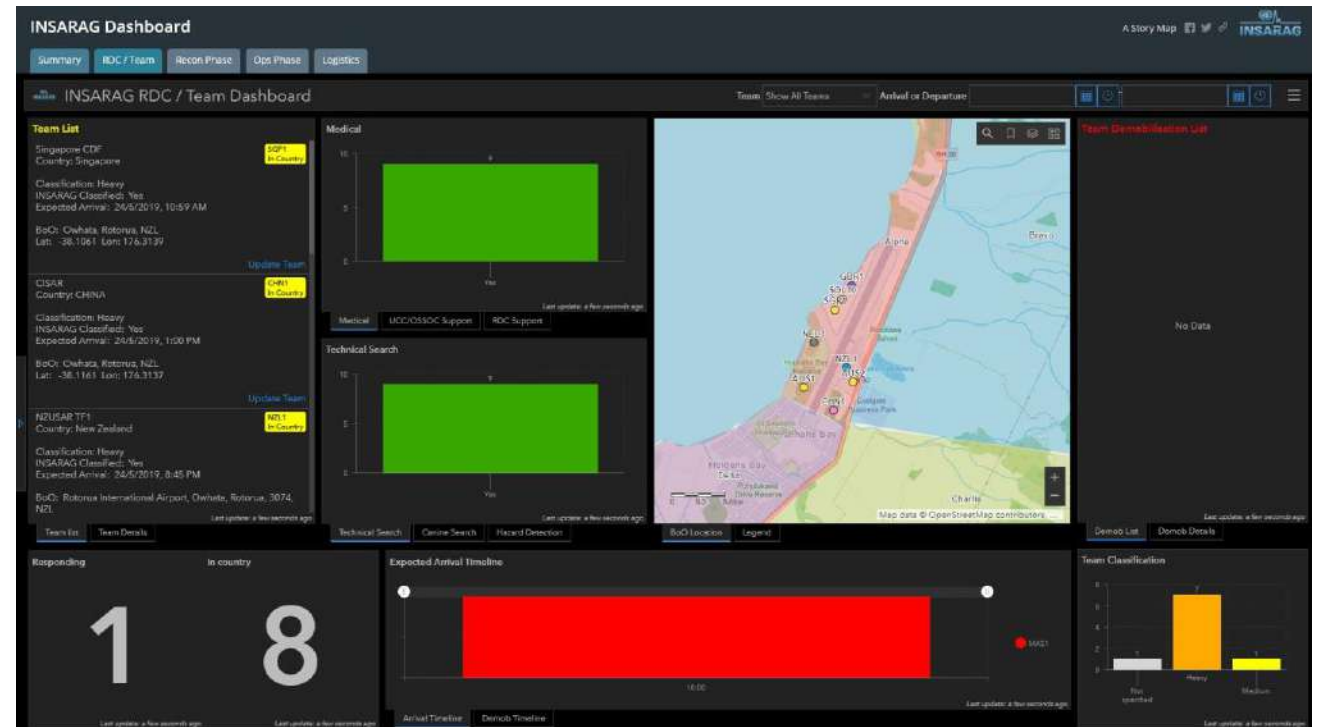
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- **UCC Management Tool**
- **Survey 123 Reporting**
- **Team QA**



Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – RDC Team

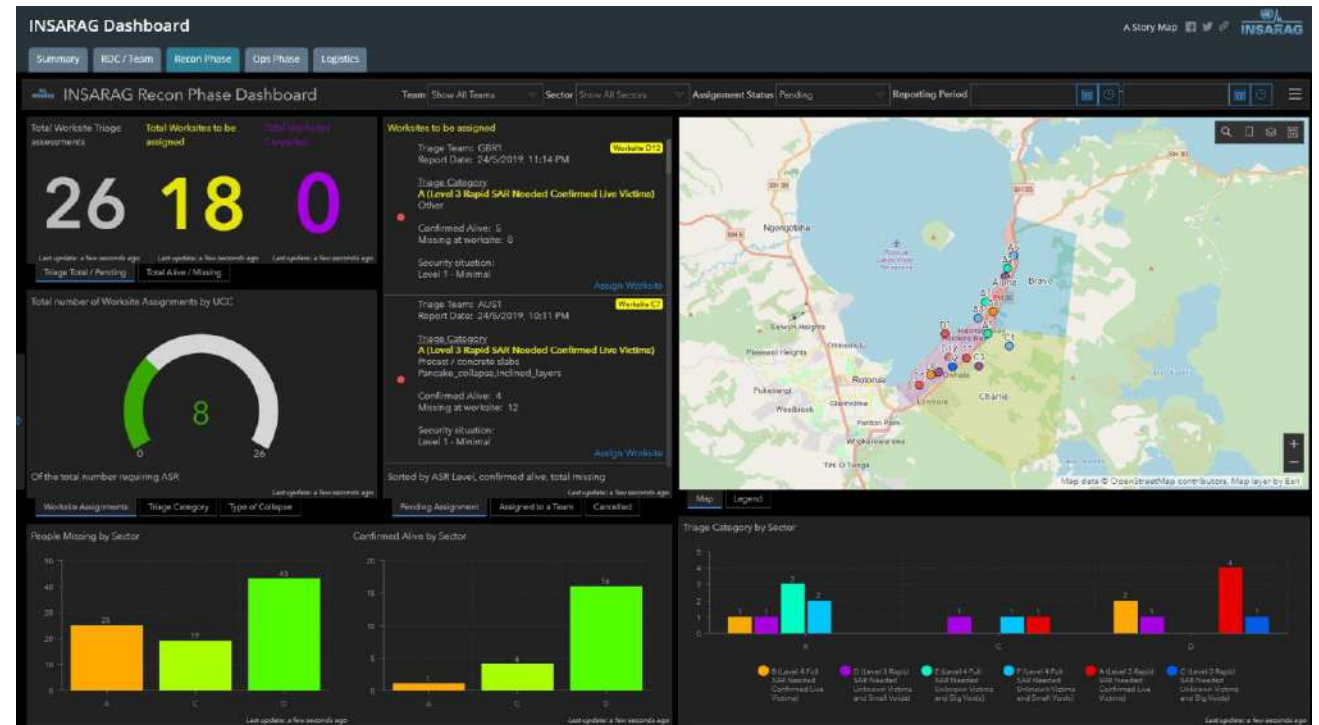
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Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – Recon (Triage)

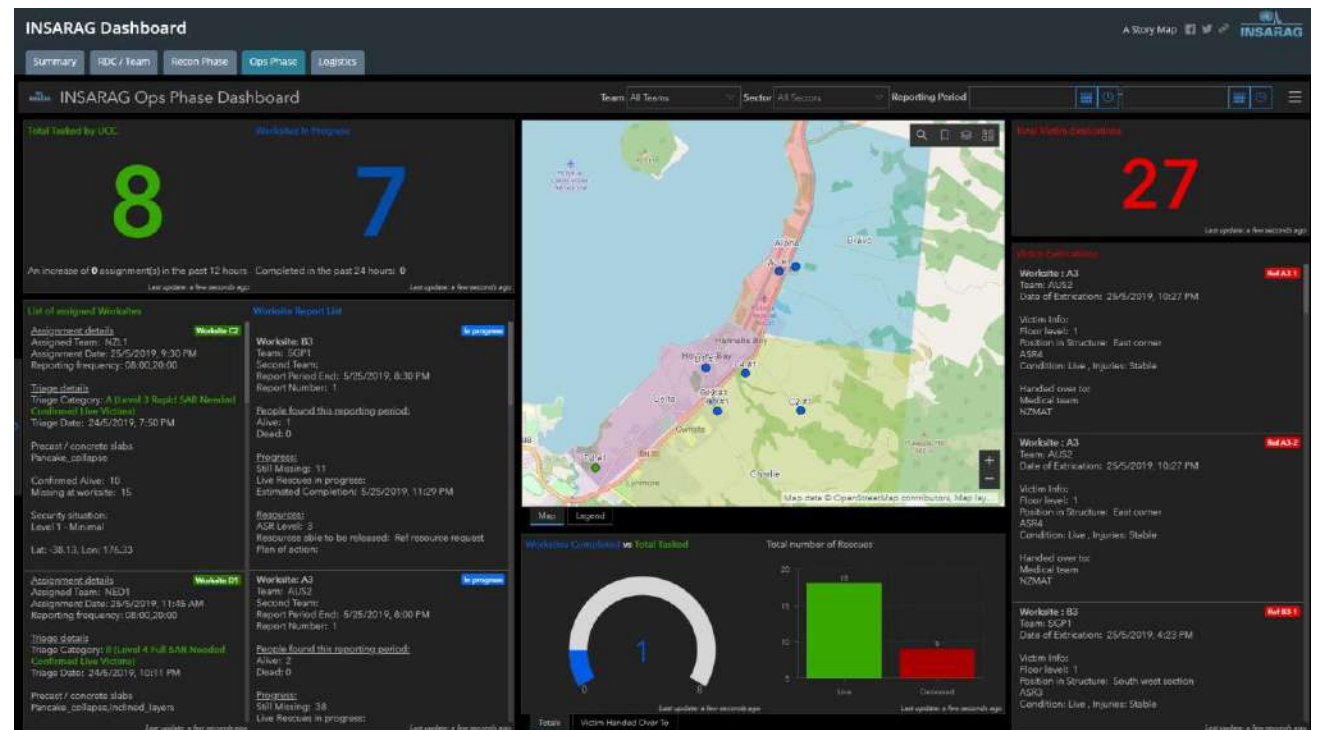
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Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – Ops Phase (Worksite)

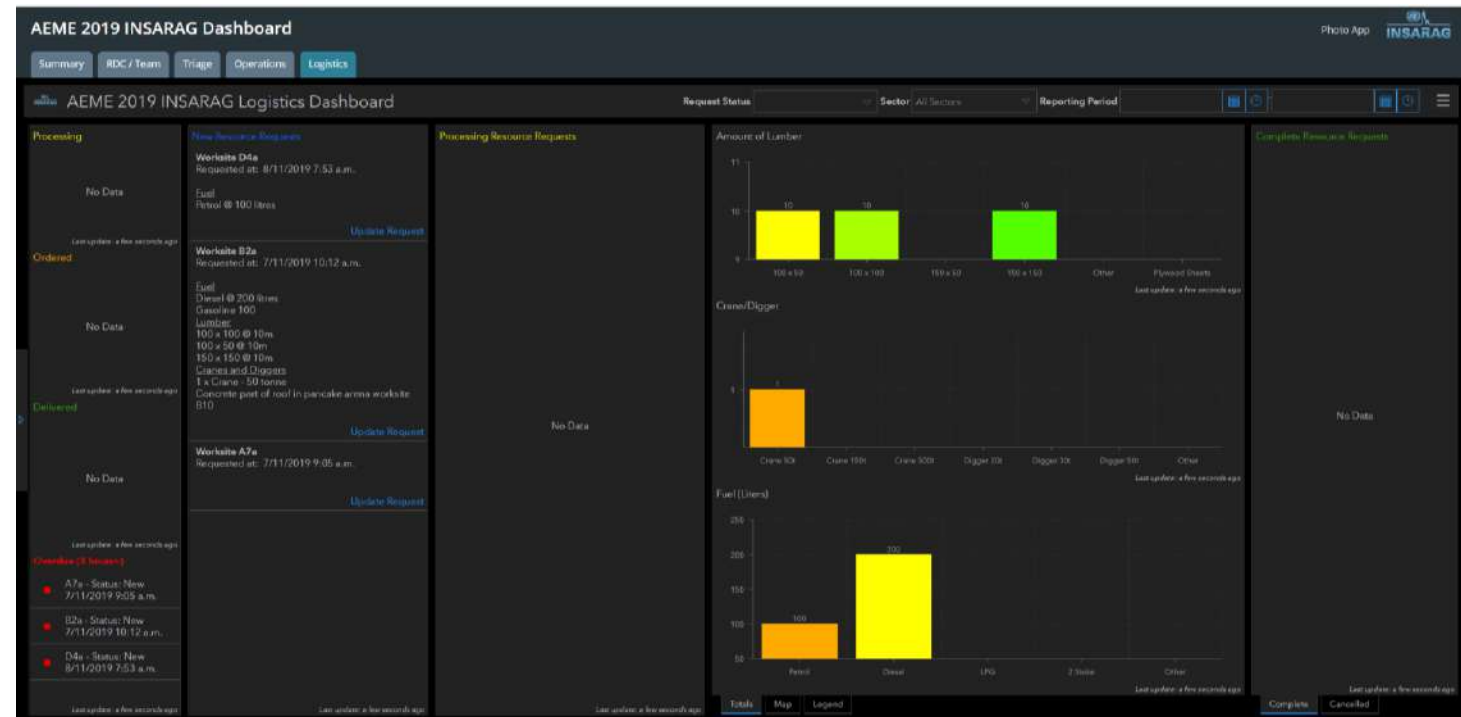
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Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – Logistics (Resources)

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- Ops Phase TAB: Worksite information
- **Logistics TAB: Resources requests & management function**
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ESRI Photo App

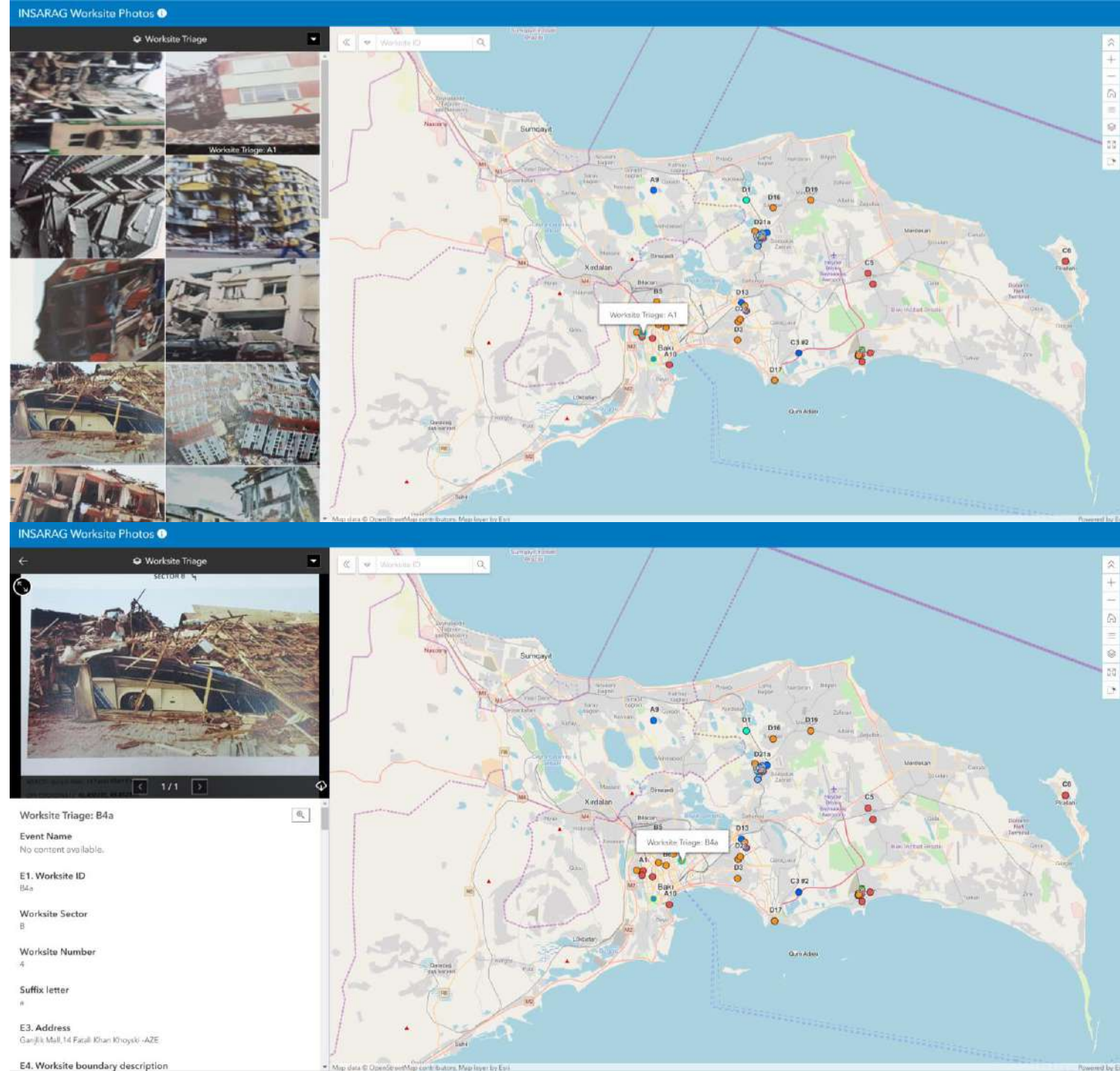
This application displays images from Worksite Triage and Worksite Report forms submitted by USAR teams.

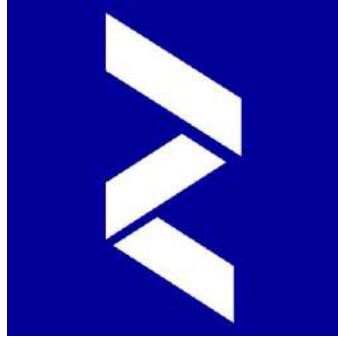
Worksites are ordered by WorksiteID

Worksites without photos are not displayed

Click an image to center the map on the Worksite, click the zoom icon to zoom in

Click the download icon to download an image

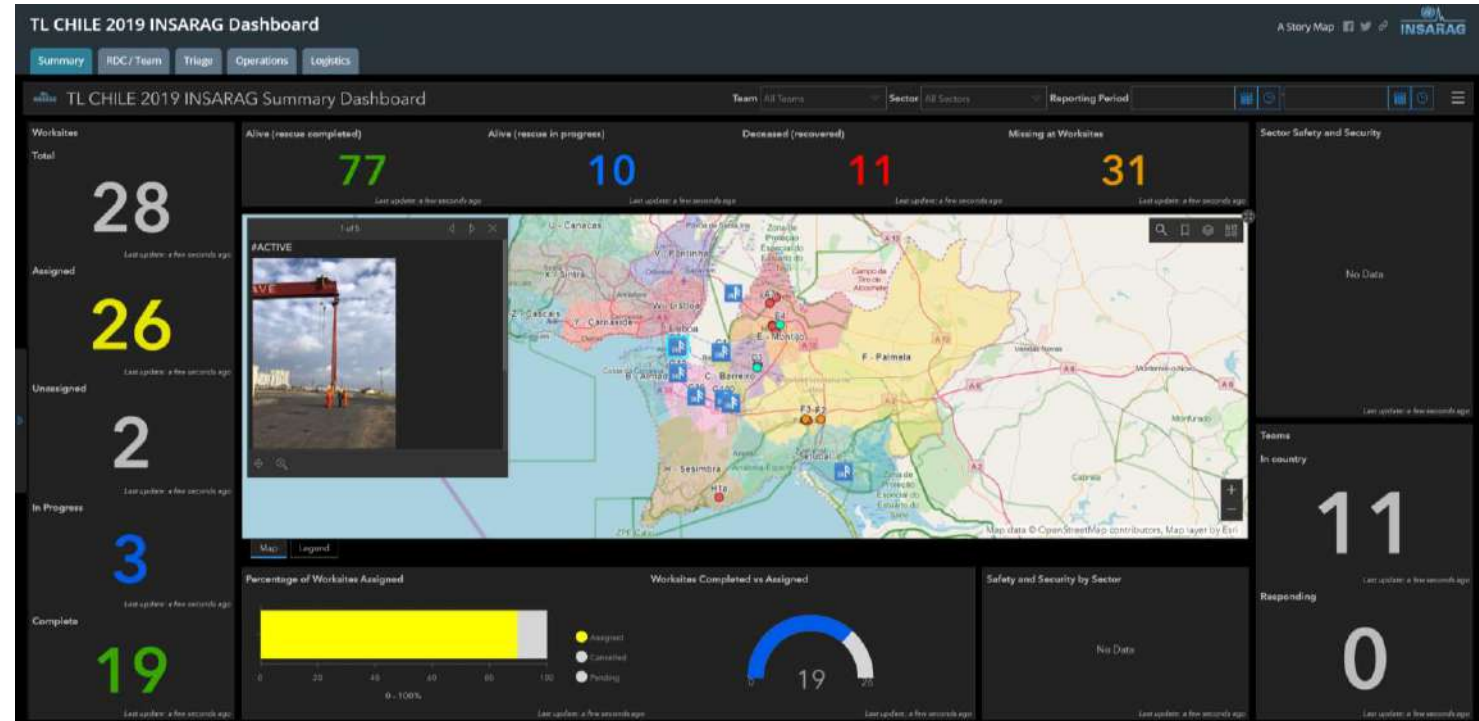




UN-ASIGN is a crowdsourcing application developed and released for the United Nations. Data are sent to an ASIGN server at CERN in Geneva, Switzerland. The UN assess the data and creates rapid mapping, esri GIS and reports that provide the national emergency stakeholders with invaluable situational awareness.

UN-ASIGNADAPTIVE SYSTEM for IMAGE COMMUNICATION over GLOBAL NETWORKS.

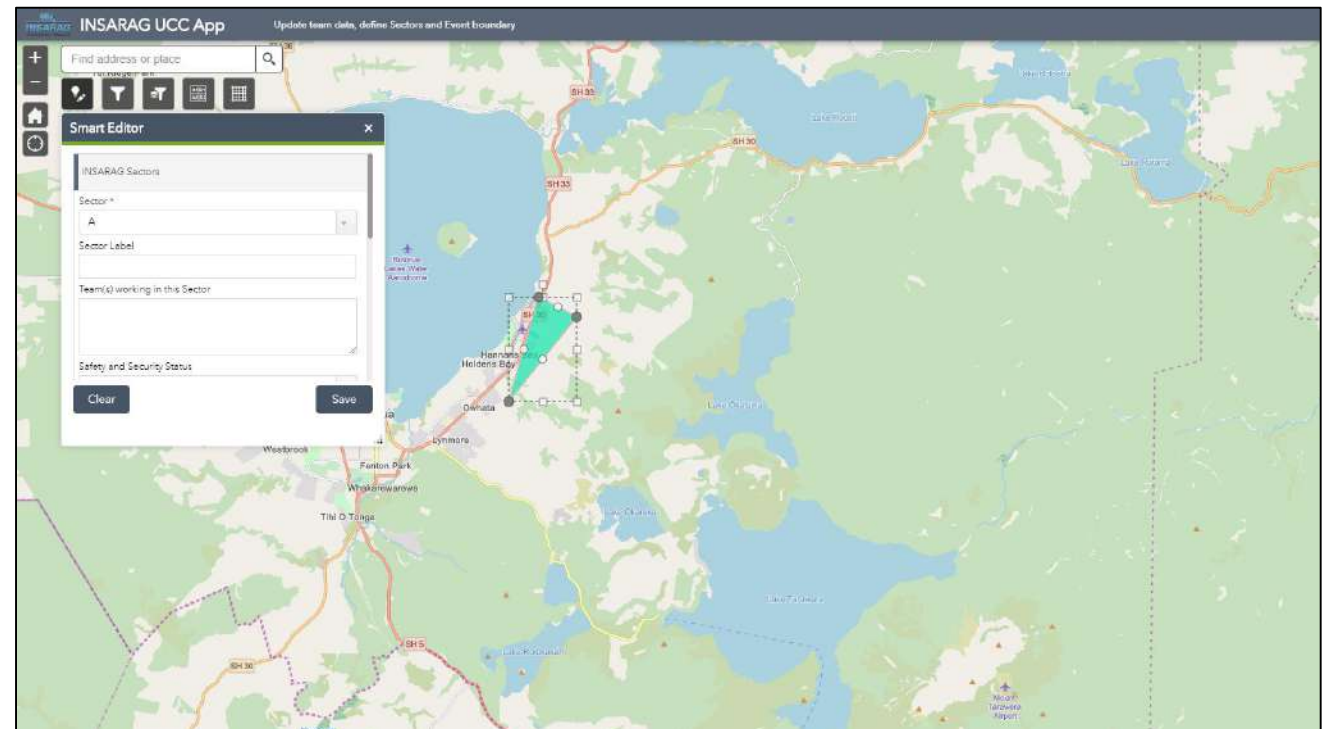
Geo-tagged photos, messages and other data sent with the ASIGN App are displayed on the INSARAG Dashboard map.



Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – UCC tool

- Summary TAB Summary of information
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- Ops Phase TAB: Worksite information
- Logistics TAB: Resources requests & management function
- **UCC Management Tool**
- Survey 123 Reporting
- Team QA



Current deliverable – ICMS (Phase 2) UC Analysis & Tasking

ICMS – S123 Reports

- Summary TAB Summary of information
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- UCC Management Tool
- **Survey 123 Reporting**
- Team QA

The screenshot displays the INSARAG Worksite Triage application. It features a green header with navigation tabs for 'Overview', 'Analyze', and 'Data'. A 'Feature Report' panel is open on the left, providing instructions on how to generate reports and offering options to 'Choose records to include' (Selected records only (0) or All records in the table (15)) and 'Select a template' (INSARAG Worksite Triage). Below the map, a table lists worksite details:

Event Name	E1. Worksite ID	Worksite Sector	Worksite Number	Suffix letter	E3. Address	E4. Worksite boundary description	F1. Team ID	Team ID, Olympic Country code	Team ID team no
	A1	A	1		District Council 35 Hoid Street HOKITIKA		NZL10	NZL	10
	E4	E	4		Stonehurst Multi level Apartments, Seaview, Hokitika.	The hostel attached to the west side of the apartments is relatively undamaged and all persons accounted for.	NZL10	NZL	10
	E1a	E	1	a	Steel and Tube, Seaview, Hokitika	Large steel and tube factory. Whole	NZL10	NZL	10

The screenshot shows a 'Worksite Report Form' with various fields for data entry. Key sections include:

- Worksite Information:** Fields for Worksite ID, Sector, Number, Suffix, Address, and Boundary Description.
- Tasking Information:** Fields for Tasking completed, Tasking time, and Tasking status.
- Personnel Information:** Fields for Personnel to be released, Personnel released, and Personnel remaining.
- Worksite Planning Information:** Fields for Number of persons off-roading, Number of persons off-roading at the worksite, and Number of the contacts.

Current deliverable – ICMS (Phase 2) Team Quality Assurance

ICMS – Team QA

- Summary TAB Summary of information
- RDC/Team TAB: Current information on teams and RDC
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- Ops Phase TAB: Worksite information
- Logistics TAB: Resources requests & management function
- UCC Management Tool
- Survey 123 Reporting
- **Team QA**

The screenshot displays the ICMS Team QA interface. It features a 'Worksite Report' table with columns for Team Approval Status, Event Name, ET, Worksite ID, Worksite Section, Worksite Number, and Site Letter. A map is visible below the table, and a 'Team Approval Status' dialog box is open, showing a dropdown menu with 'Approved' selected and 'Save' and 'Cancel' buttons.

Team Approval Status	Event Name	ET	Worksite ID	Worksite Section	Worksite Number	Site Letter	ET Address
Approved			C1	C	1		Site 1
Approved			C2	C	2		Site 2
Approved			A2	A	2		Site 2
Approved			B1	B	1		Site 1
Approved			D1	D	1		Site 1
Approved			A1	A	1		Site 1
Approved			B5	B	5		Site 5
Approved			A10	A	10		Site 10
Approved			A5	A	5		Site 5
Approved			B1	B	1		Site 1
Approved			D14	D	14		Site 14

Conclusion

IMWG & ICMS

- **Delivered at the October TLM in Chile**
- **Operational in teams in early 2020**
- **IMWG continues to work on next phases – Reporting and team level tasking**
- **IMWG responsible for finding and developing future capabilities to support INSARAG goals and methodology**
- **ICMS will be delivered free to all teams – ESRI and ELM cooperation provides us with a gold standard tool box**
- **Any questions please email to INSARAG.IMWG@gmail.com**