



MINDCOLLECT

**Information Needs Management System for Coalition
Situational Awareness, Sensemaking, Decision Making and
Mission Integration**



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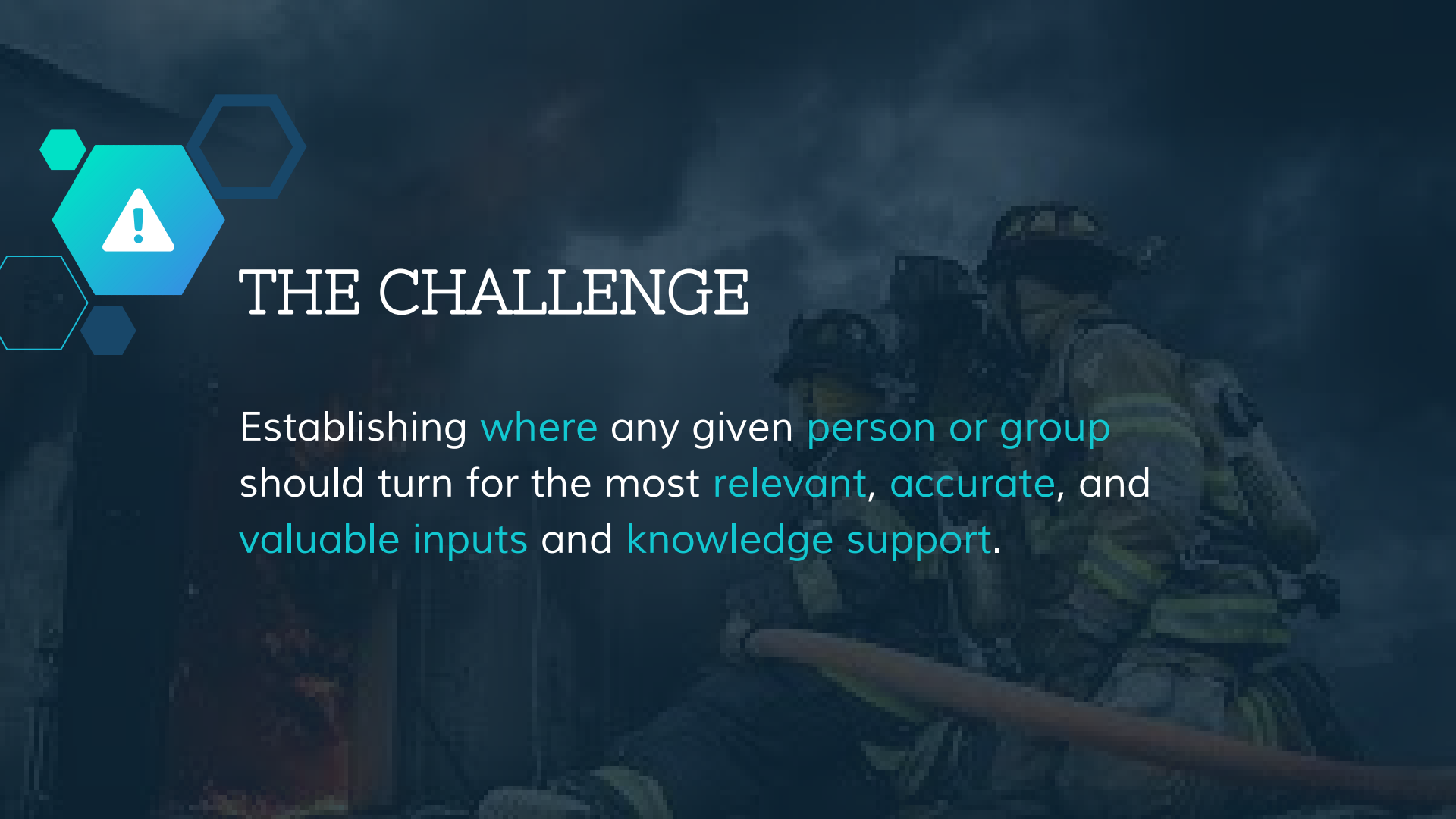


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THE CHALLENGE

Establishing **where** any given **person or group** should turn for the most **relevant, accurate, and valuable inputs** and **knowledge support**.





Why Define Information Requirements & Map Information Flow?

Data-informed Decisions

Base business decisions on higher-quality information inputs and analysis

Faster Worker Productivity

Clear descriptions of information inputs to roles, decisions and tasks that accelerate time-to-competency

Collaborative Transformation

The process aligns managers, KM, IT, Functions and employees in the transformation process



Data collected can be used to create other artifacts



Inputs to
Process Maps



Job Previews, Job Onboarding
Guides and Learning Materials



Specifications for Tasks
and Information Needs



Inputs to Emergency
Preparedness Plans





Profile Information Needs & Add Context

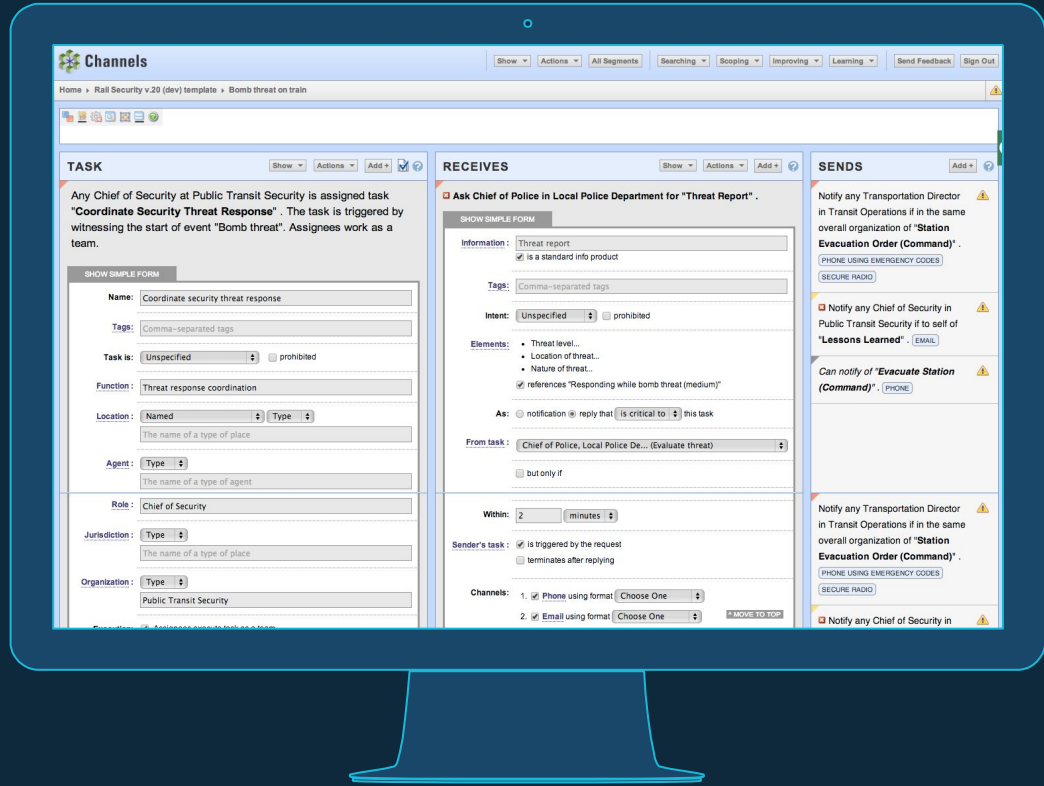




PAST WORK



ABOUT CHANNELS





INTRODUCING...



MINDCOLLECT



DESIGNED

to be easy for everyone

...



COMMANDERS



OPERATIONAL
PARTNERS



NON-MILITARY
PARTNERS



MINDCOLLECT CONSISTS OF...



THE METAMODEL

The software semantically interrelates the conceptual elements
in the questions and answer datasets





Do you perform this task during Phase X, Phase Y, or Phase Z of the **PROCESS**?

Which **ROLE** in the above organization performs this task?

What **INFORMATION INPUTS** are needed to execute this task?

What is the **SOURCE ORGANIZATION** for this information?

By what **MEANS OF COMMUNICATION** is this information received?

What **ISSUES** impact your ability to access or use this information?

What is the **SOURCE ROLE** for this information?



NATURAL LANGUAGE GENERATION



1

Machine representation system such as a knowledge base.

2

NLG systems dynamically create texts to meet a communicative goal.

3

Achieve situational awareness, sensemaking, decision making

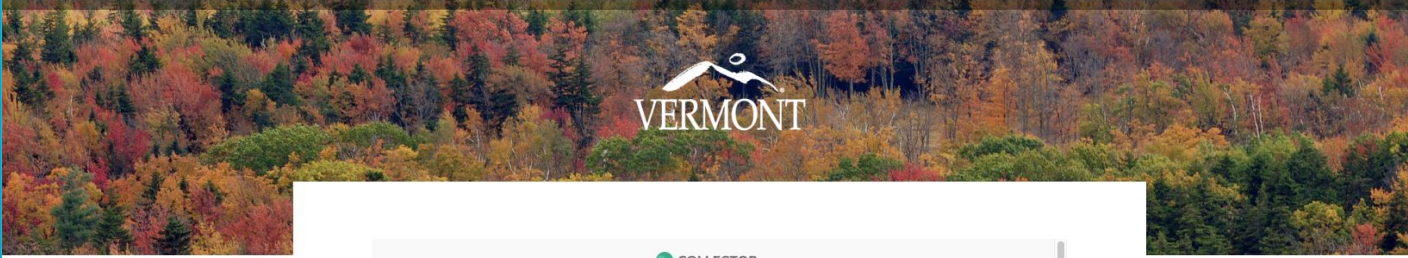


MindCollect identifies **information gap** issues so that that manager can **improve plans** and track the **effect of solutions** that get deployed.



SOFTWARE DEMONSTRATION





COLLECTOR

Task Narratives

[+ ADD TASK](#) [✕ INVITE](#)

[Flooding Scenario \(Vermont\) ▾](#) [All Phases ▾](#) [All Organizations ▾](#)

RP2.1: Create the Objectives of the EOC AP Erica Bormemann from Division of Emergency Management and Homeland Security	👤 🟢 ✕
WL1.2: Contact Food Vendors Kate Hammond from Division of Emergency Management and Homeland Security	👤 🟢 ✕
WL1.3: Determine staffing requirements for activation Kate Hammond from Division of Emergency Management and Homeland Security	👤 🟢 ✕
WL1.4: Prepare Facility IT Kate Hammond from Division of Emergency Management and Homeland Security	👤 🟢 ✕
WL1.5: Check status of Alternate EOC Readiness Kate Hammond from Division of Emergency Management and Homeland Security	👤 🟢 ✕
WL1.1: Check the Generator, Building Power, Building accessibility, Flood Door and Parking is ready for SEOC Activation Dave Burley from Buildings and General Services	👤 🟢 ✕



Vermont Case

> **45** PARTICIPANTS
SEOC, SSF, LOCALS, CONSULTANTS

> **81** PROCESSES
IDENTIFIED FOR VERMONT SEOC

> **96%** ACHIEVED
LEARNING OBJECTIVES & TASKS

> **148** TASKS
DEFINED FOR VERMONT SEOC

BENEFITS



Deeper Understanding of
Information Needs



Save
Planning Time



Retain and Leverage
Institutional Knowledge



Improve Crisis Response
and Performance



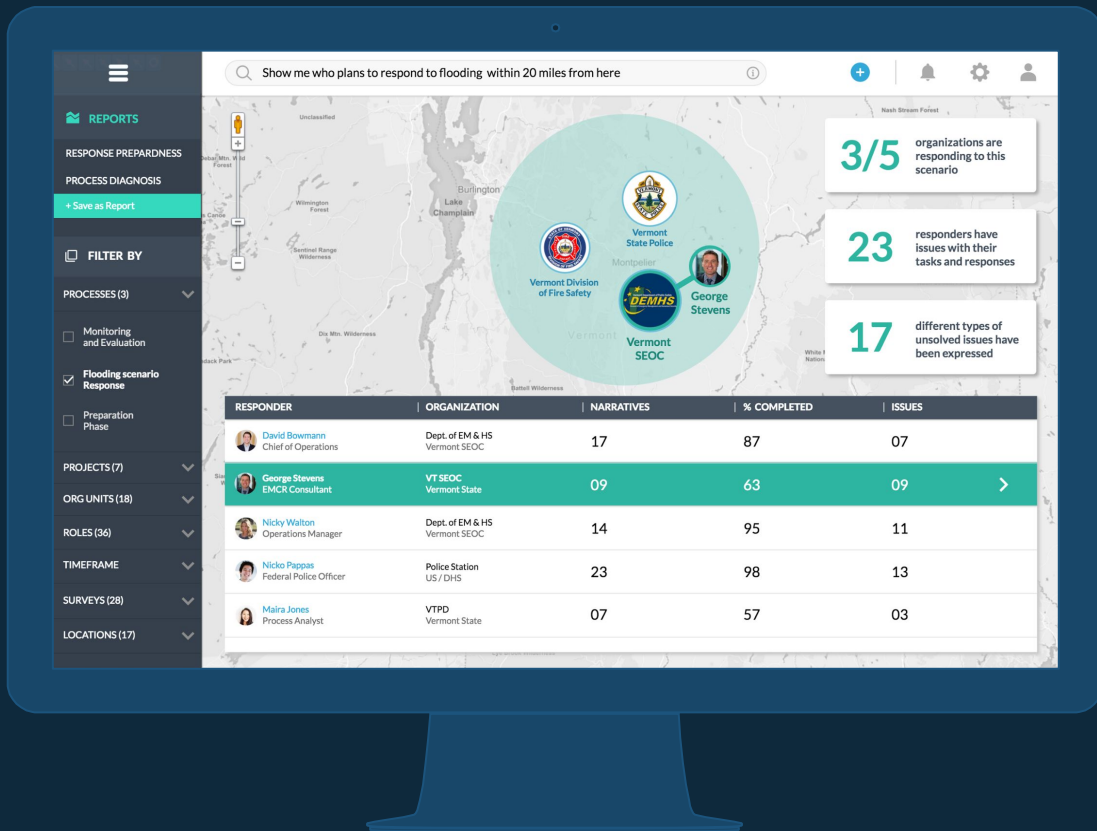
Increase
Plan Effectiveness



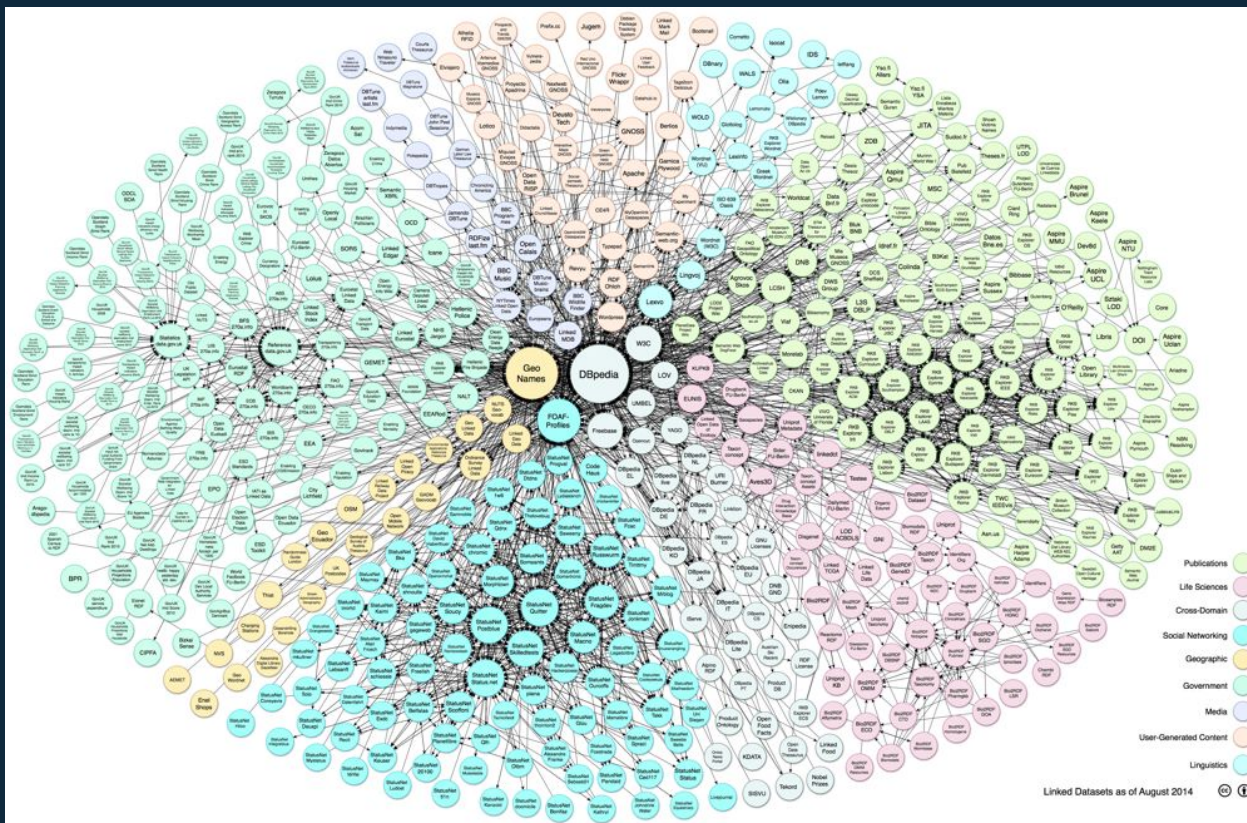
Enhance
Decision Quality



FUTURE DIRECTIONS



The Linking Open Data Cloud Diagram



<http://lod-cloud.net/>

Semantic Knowledge Map

Home Help Account Enterprise v2.1.3

MindPeer [✕](#)

no description - click to edit [✕](#)

Map RB Lang Goals Agents

Concepts

- + Add
- Edit
- Instances
- Delete

Relationships

- + Add
- Edit
- Rules
- Delete

```
graph TD;
    IS([Information Source]) -- "receives input from" --> A([Answer]);
    IP([Information Product]) -- "contains on or more" --> A;
    C([Customer]) -- "has a" --> IN([Info Need]);
    IN -- "is satisfied by" --> IP;
```

The diagram illustrates a semantic knowledge map with five concepts represented as ovals: Information Source, Answer, Information Product, Customer, and Info Need. The relationships are as follows: Information Source receives input from Answer; Information Product contains on or more Answer; Customer has a Info Need; and Info Need is satisfied by Information Product. The interface includes a top navigation bar with Home, Help, and Account links, and a 'Save Changes' button. A left sidebar contains 'Concepts' and 'Relationships' sections with various action buttons. At the bottom, there are navigation icons for zooming and a help icon.



MIND ALLIANCE
SMARTER HUMAN NETWORKS



MINDPEER

Questions

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