



High Availability EI

A next generation early intervention platform
for front-line supervisors and analysts

EIPRO

HIGH AVAILABILITY EARLY INTERVENTION

NEXTGEN EI

EIPro is an advanced early intervention tool designed to enable frontline supervisors to identify and monitor outliers in the organizational areas under their purview.

The core of EIPro is an advanced, real-time peer group analysis engine.

Employee outliers are identified empirically and are emphasized to indicate that closer observation and/or assistance by their supervisor may be required.

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1 High Availability

Information is available whenever required on a wide variety of digital platforms. Peer group and aggregation analytics are performed in real-time.

2. Real-Time

Data sourced from IAPro, BlueTeam and incoming feeds from external systems that is surfaced is fresh and reflects present state.

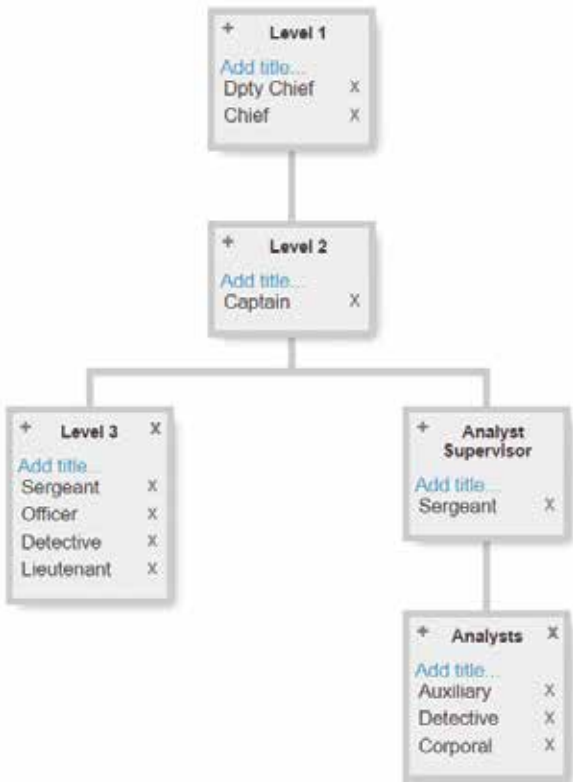
Peer group analysis is done without bias.

3. Filtered

Filtering is configurable, with a wide range of settings that can be applied by type of critical incident. Configuration is designed to meet customer-specific security, workflow and policy requirements.



REAL-TIME REDACTION



Designed to be fully configurable; administrators can add or remove incident types surfaced to users, and further configure redaction of specified incident information.

The screenshot shows the 'Add Incident Type' configuration interface. The incident type is 'Administrative Investigation'. The settings are as follows:

- Allow Drill Down:** Yes No. Description: Allows users to see the details of the incidents for employees under their purview. Allows users to use the additional statistics features to work off of the data associated with this incident.
- Show Attachments:** Yes No. Description: Allows users to access files linked to incidents.
- Show Blue Team Report:** Yes No. Description: Allows users to see the Blue Team report linked to an incident if it exists.
- Show Summary/Narrative:** Yes No. Description: Allows users to read the narrative(s) linked to an incident.
- Filter By Completed Date:** Yes No. Description: Adds an additional filter so incidents of this type are only surfaced if they are completed.

“ We need to quickly get information to front-line supervisors without compromising sensitive investigations or other data. That’s why redaction is so important. ”

PEER GROUP ANALYTICS

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Performs peer-group analysis to emphasize employees who may require closer observation.

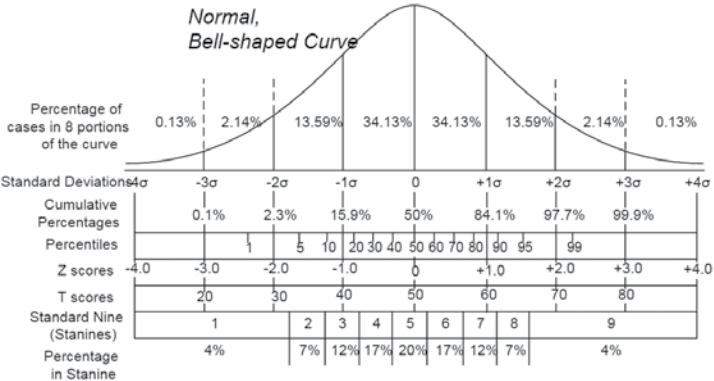
The peer group analysis approach that EIPRO uses is to primarily eliminate the following problems:

- 1 Traditional threshold based approaches require buy-in; everyone needs to agree that only an X number of involvements (In a particular incident type) in a period of Y days/months is considered within standard. Depending on where an employee is deployed, they may have a lesser or greater probability of being exposed to those types of involvements.

In summary a general threshold for all employees cannot account for differences in work load and environmental factors as well as being difficult to justify if the original decision makers have transferred/moved on.

- 2 Traditional threshold based approaches provide no additional information once employees have passed the threshold. Supervisors may be alerted to additional involvements past the acceptable limit but there is no way to gauge “team’s” performance in general.
- 3 Threshold based approaches may promote “slacking”. Once you’re aware that you’re nearing or at the threshold, there is a greater incentive to be less active since it would also mean a lesser chance of being “put on the radar” of your supervisor.

The peer group approach has no knowledge about any hard configured limits/thresholds. Every time a supervisor enters the application, the scoring of all the employees under his/her purview is calculated based on the real time status of the available data.

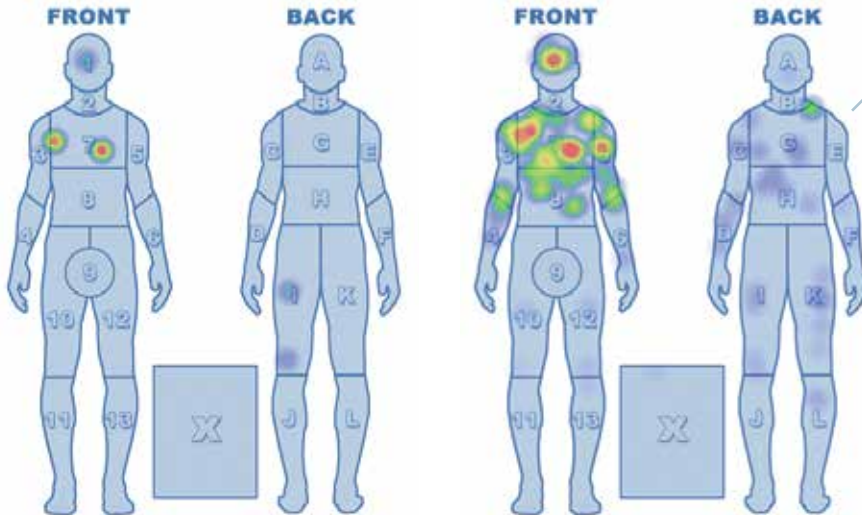


Suppose a supervisor has purview over 20 employees. Whenever the supervisor enters EIPRO, the application will calculate a standard score for each of the 20 employees for each of the incident types that has been configured to be surfaced. If EIPRO is configured to surface “Complaints” and “Uses of Force”, each of the 20 employees will have 2 standard scores calculated for them.

KEY SOLUTION FEATURES

Heat map analytics of force contact points

A comparison of contact points for specified force used by an officer (left-hand figures) can be compared to those of the defined peer-group (right-hand figures).



“Complaints are way up in District 5. Who should we have a chat with over there?”

Identifying outliers

Yellow coloring allows users to quickly identify out-of-standard indicators for officers within their area of purview. Color intensity communicates degree of out-of-standard in relation to the filtered data available.

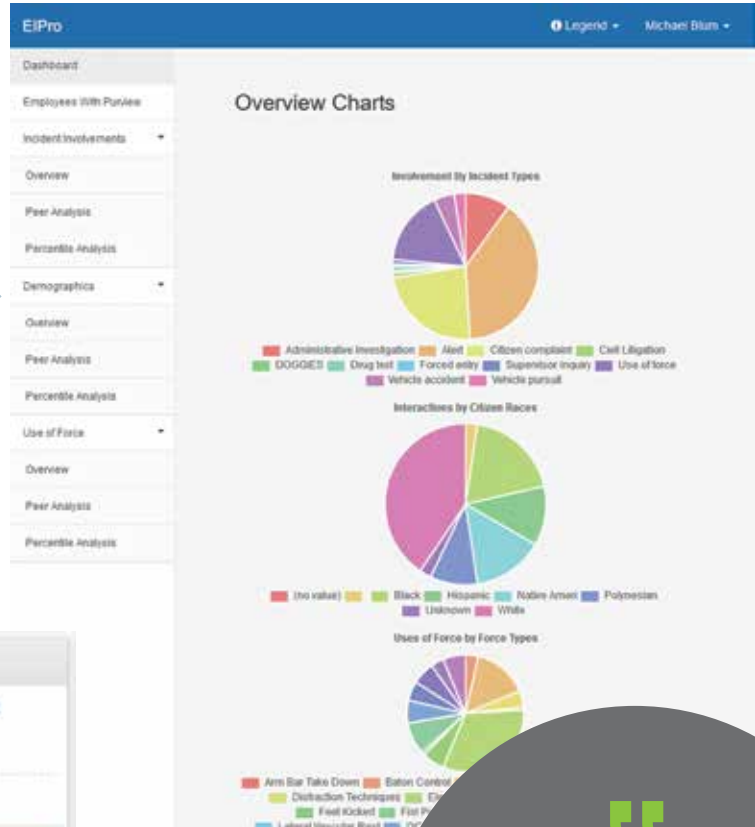
HAMSON, Master P.O. David									
Investigative Division					Special Investigators				
C.Dist					Dist				
No assignment					No assignment				
ASG	AAA	A	AAAF	ASP	ASG	AAA	A	AAAF	ASP
CA	CA	C	CAAR	STAP	CA	CA	C	CAAR	STAP
E	DAO	ETC	ETP	EOA	E	DAO	ETC	ETP	EOA
EUP	E	FNET	FTPA	FOO	EUP	E	FNET	FTPA	FOO
F	FONE	FNOO	F	FWE	F	FONE	FNOO	F	FWE
IE	IGAL	IGY	IGP	IFT	IE	IGAL	IGY	IGP	IFT
IMP	IKOO	IOE	IKAL	T	IMP	IKOO	IOE	IKAL	T
SA	SA	SOP	SPT		SA	SA	SOP	SPT	

ISON, Lieutenant Anne									
Administrative Division					Command Duty Officer				
Canine Unit					State				
No assignment					No assignment				
ASG	AAA	A	AAAF	ASP	ASG	AAA	A	AAAF	ASP
CA	CA	C	CAAR	STAP	CA	CA	C	CAAR	STAP
E	DAO	ETC	ETP	EOA	E	DAO	ETC	ETP	EOA
EUP	E	FNET	FTPA	FOO	EUP	E	FNET	FTPA	FOO
F	FONE	FNOO	F	FWE	F	FONE	FNOO	F	FWE
IE	IGAL	IGY	IGP	IFT	IE	IGAL	IGY	IGP	IFT
IMP	IKOO	IOE	IKAL	T	IMP	IKOO	IOE	IKAL	T
SA	SA	SOP	SPT		SA	SA	SOP	SPT	

JACKS, Master P.O. Nicholas									
Patrol Division					VULN				
District					Dist				
No assignment					No assignment				
ASG	AAA	A	AAAF	ASP	ASG	AAA	A	AAAF	ASP
CA	CA	C	CAAR	STAP	CA	CA	C	CAAR	STAP
E	DAO	ETC	ETP	EOA	E	DAO	ETC	ETP	EOA
EUP	E	FNET	FTPA	FOO	EUP	E	FNET	FTPA	FOO
F	FONE	FNOO	F	FWE	F	FONE	FNOO	F	FWE
IE	IGAL	IGY	IGP	IFT	IE	IGAL	IGY	IGP	IFT
IMP	IKOO	IOE	IKAL	T	IMP	IKOO	IOE	IKAL	T
SA	SA	SOP	SPT		SA	SA	SOP	SPT	

Dashboard as filtered gateway to information

Clicking on a graphical element (bar, pie segment etc.) allows users to quickly get to the underlying detail information.



Officer card

The bright yellow incident type “buckets” indicate that, in comparison with his peers, the officer has a greater number of involvements in incidents. Clicking on a “bucket” provides drill-down to the underlying incidents.



“How soon can Professional Standards get that information to us?”



Visualize percentile measurements

A specialized UI is offered to communicate officers' respective positioning in relation to that of their peers.

DATA SOURCES

EIPro offers a consolidated view of data sourced from a variety of systems, in addition to information directly entered via IAPro and BlueTeam Professional Standards software applications.

- Citizen complaint
- Internal investigation
- Citizen contact
- ■ Use-of-force
- ■ Show-of-force
- ■ Forced entry
- Firearm discharge
- Vehicle pursuit
- Employee involved accident
- ■ On-duty injury
- ■ Lost/stolen equipment
- Excessive sick leave
- Excessive leave balance
- Elevated use of time off
- Excessive overtime
- ■ Traffic stop
- ■ Pedestrian stop
- Citation
- Discretionary arrest
- High risk crime report
- Potential stress incident
- K9 utilization
- K9 deployment



I want to have one place where I can go and see the whole picture.

DATA SOURCES

- Professional Standards
- HR, scheduling
- RMS or dispatch

TIMELINE

2017

**EIPRO GOES INTERNATIONAL,
CUSTOMER BASE CONTINUES TO EXPAND**

After piloting EIPro, Calgary Police Service and Tasmania Police commence production use.

2016

**CONTINUED EXPANSION AS
VERSION 2.0 IS RELEASED**

Albuquerque, San Diego and 9 other Police Departments join the EIPro customer base. Version 2.0 is released.

2015

**PRODUCT INTRODUCTION AND
A GROWING CUSTOMER BASE**

Maricopa County commences pilot use in January, followed by Virginia Beach Police and Camden County Police (NJ).

2014

PRODUCT DEVELOPMENT

The court appointed monitor for Maricopa County Sheriff's Office (AZ) requests a solution similar to the new product being developed, and work is accelerated.

2013

R & D EFFORTS RESULT IN AN EARLY PROTOTYPE

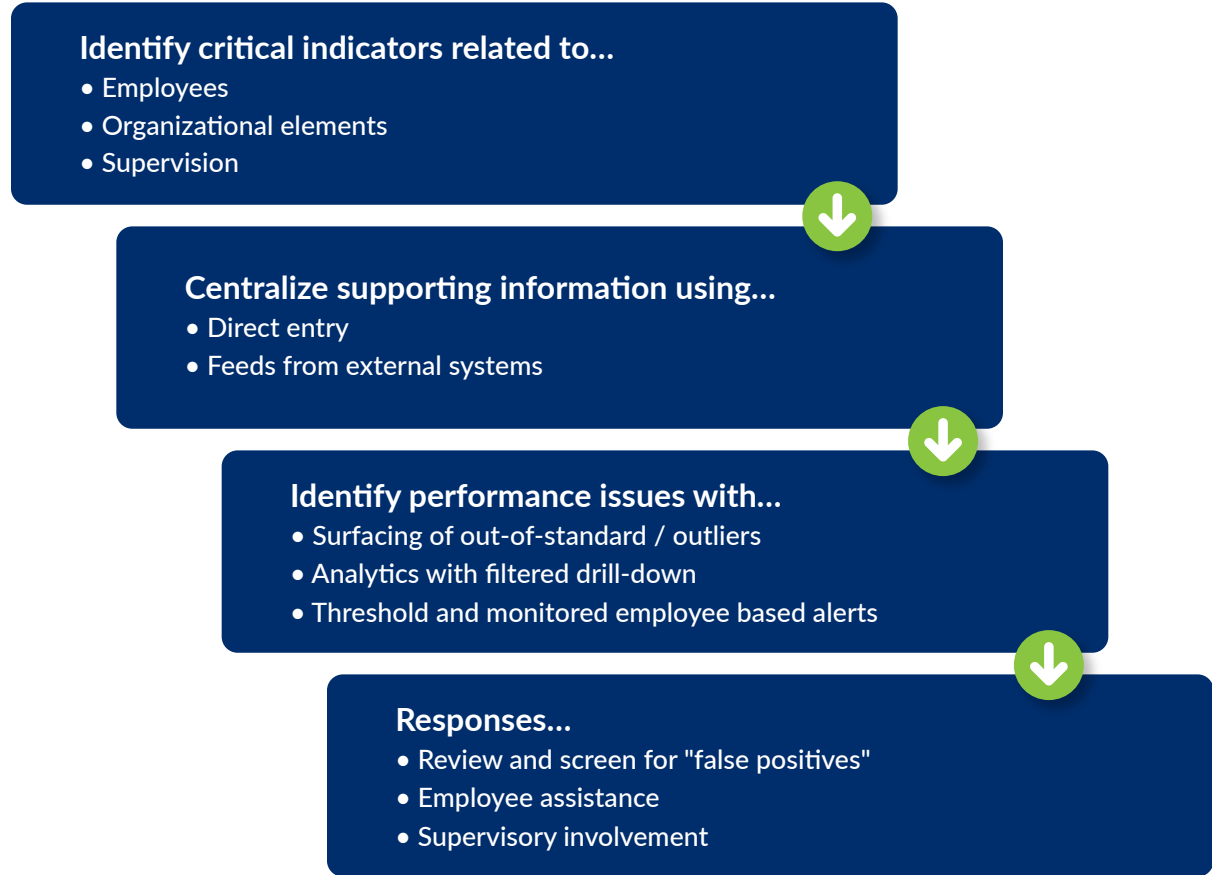
Core technologies and application architecture are determined. A working prototype is built and presented to key customers.

CONCEPTS

Early intervention in public safety has progressed over the past 25 years, and continues to be a dynamic and evolving area, with a variety of programs and approaches being used by organizations large and small.

In addition to referrals from co-workers and supervisors, as well as employees themselves, data-driven approaches are utilized to identify issues and determine appropriate response.

With the active involvement of front line supervisory and command staff being critical to the effectiveness of an EI program, there needs to be a means to quickly provide information to front-line supervisors without compromising sensitive investigations or other data.



ABOUT US

Our background is developing and supporting integrity software that's used by public safety organizations in the US, Canada, Australia and New Zealand. Further information can be found at www.iapro.com and www.blueteam.com.

Integrity software supports investigations of, and responses to, misconduct, corruption and other employee activity that could be detrimental to the organization.

Proactive early intervention has always been supported, and is now significantly enhanced by the addition of EIPro.

About the Company

CICAD Technologies, Ltd. is headquartered in Vancouver, British Columbia, Canada.

Since its inception, CICAD has provided software programming and other services for CI Technologies, Inc.

CI Technologies the leading provider of public safety integrity software solutions worldwide.

CICAD Technologies, Ltd.
Vancouver BC
Canada

EarlyIntervention.com

Technical specification

Web-based user interface

EIPro is web-based, providing access to the software from anywhere on your organization's secure network. Practically all modern web browsers are supported. Contact CICAD Technologies for the official list of supported versions.

Mobile- and touch-ready

Attention is being given to ensure the accessibility of EIPro using non-traditional devices. Users will find the software just as easy to use from their tablet or mobile device as from their desktop web browser.

Database driven

Behind the scenes, EIPro uses the same industry standard relational databases used by IAPro and BlueTeam to store its data.

Cross-platform

EIPro is built using the latest open source technologies. This ensures the security, platform-independence and forward compatibility of the solution.

EIPRO

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