TOXI-Triage Tag & Trace | **Sample Tracing**

The Prometech Tag & Trace system is a smart tool to safeguard the chain-of-custody and keep track of CBRN samples in an emergency situation or forensic investigation.

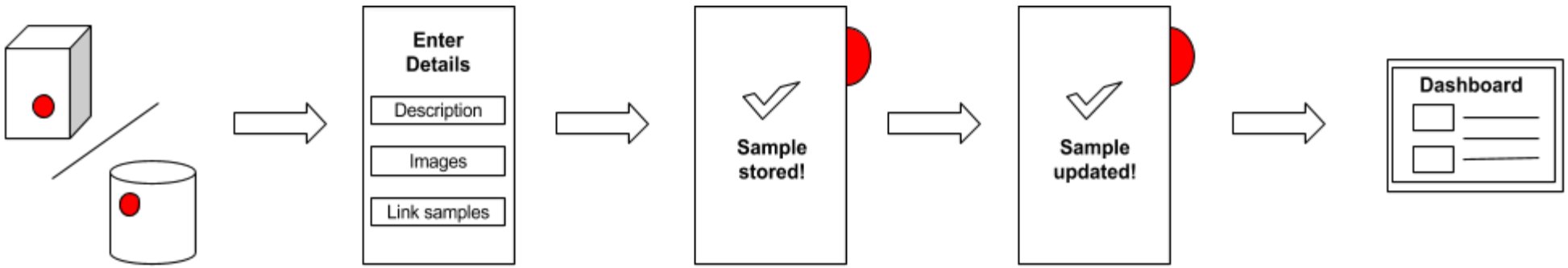
How can Tag & Trace help?

During a CBRN incident it is critical that field samples are properly tracked throughout the entire chain-of-custody. Under no circumstances may the samples itself or results from its analysis get **lost, forgotten, neglected** or **misplaced**. Similarly, the last-known position, the person handling the sample and any laboratory results must be safely stored and be easily accessible to all authorized and relevant persons. The Tag & Trace system being developed within TOXI-Triage is an easy-to-use tracking system that uses NFC tags and an innovative smartphone app to help support this process from start to finish and according to **OPCW** and **NATO** sampling guidelines.

What does it do?

- Samples can be tracked by attaching a **cheap, robust and disposable tag to each sample**
- **Metadata** such as the last known location, related split samples and handler are stored at each step in the process
- Information about a sample is **stored on the tag** as well as synchronized with a **central database**
- A **dashboard** is available online to provide an overview of all samples (as well as details on each of them, such as last known location and status)
- Automated **notifications** can be triggered when e.g. a sample is ready being analyzed or new samples have been added to the system
- The system **does not require a constant internet connection**, but will synchronize as soon as a working connection is detected

How does it work?



1:
The sample container (e.g. box, bag, vial) is tagged in the field using a NFC sticker (has identification number and can be color-coded if needed)

2:
Sample data (type, media, description, etc...) can be entered using a user-friendly app. Time, location and sampler are added and tracked automatically.

3:
The tag on the sample is scanned, which stores data (including GPS) on the tag. Data is also synchronized with a remote database.

4:
At later stages in the process (en-route, laboratory arrival, analysis, etc..) the tag and online record can be updated by tapping the tag again

5:
Details about individual samples as well as an overview of all samples can be obtained through the TOXI-Triage ICT dashboard