



THE SIREN PERSPECTIVE

# Network Graphs for Precision Targeting of Synthetic Narcotics Trafficking Syndicates in the US



## Synthetic Narcotics are Biochemical Weapons

Synthetic narcotics trafficking in the United State is predominantly characterized by production zones of pharmaceutical-grade pill manufacturing facilities in specific regions of Mexico that are under the direct control of the Sinaloa Cartel and the Nueva Generación Cartel. These synthetic narcotics manufacturing facilities have been predominantly constructed and are managed by interests that are directly linked to the Chinese Communist Party (CCP). This enables a degree of precision compound formulation and the associated efficiency gains of mechanization that result in some synthetic narcotics being priced as low as \$1 per pill.



This consistently low price point results in mass market accessibility at virtually every income stratum. Synthetic narcotics were considered a 'luxury item' just a few years ago. No other narcotic has ever witnessed such a dramatic drop in price.

In addition, many of these synthetic narcotics appear to be commercially unviable even over the medium term. For example, fentanyl-laced heroin does not generate a stable population of consumers given the high fatality rates of users. Users of many other naturally grown narcotics will purchase product for multiple years (or even a lifetime in some cases) thereby generating a stable and viable illicit market. In the case of fentanyl-laced heroin (for example), the product itself is highly likely to either kill or severely debilitate the user over a short timeframe. It is therefore unclear as to whether there is a purely commercial motive for the manufacturing and trafficking of these synthetic narcotics. It is also noteworthy that a substantial portion of these synthetic narcotics precursor chemicals originate from factories in Wuhan, China's biotechnology hub and point of origin of the COVID-19 pandemic.

The unwavering key destination for these biochemical weapons is the United States. Canada has also experienced recent exponential increases in volumes of trafficked synthetic narcotics as have American Allies Australia and New Zealand. Meanwhile, synthetic narcotics overdoses in China itself are virtually non-existent and flows of fentanyl-laced heroin in nearby Southeast Asia (including Golden Triangle countries), the Middle East, Russia, and Europe are minimal. This specific geographic clustering provides clear evidence that the trafficking of highly lethal synthetic narcotics into the United States and specific Allied countries is hostile state-directed activity.



## Network Graphs Dynamically Determine Threat Group Structure and Function 3

Synthetic narcotics trafficking syndicates generate large, complex, multi-functional, and deliberately geographically dispersed network structures. These structures are designed for commercial and financial efficiency but also with some redundancy and segmentation to reduce their vulnerability to a single decapitating strike by law enforcement, intelligence, and/or military action.

Network graphs have the unique field-validated capability to ingest and aggregate multiple disparate intelligence streams and represent that knowledge in the form of a 'living' organizational diagram that constantly evolves alongside new syndicate-specific data that becomes available over time. Network graphs enable the first critical strategic action in any counter-narcotics operation: the effective sizing of a threat group to determine core group structure and key functions.

## Precision Targeting

Armed with a high-fidelity network graph, high-confidence determinations and decisions can be made regarding precision targeting for strategic effect across multiple timescales. When a threat group's network structure is fully enumerated and its critical dependencies isolated, the specific cascade of consequences (positive, negative, and/or net neutral) of a specific course of action can be reliably determined.

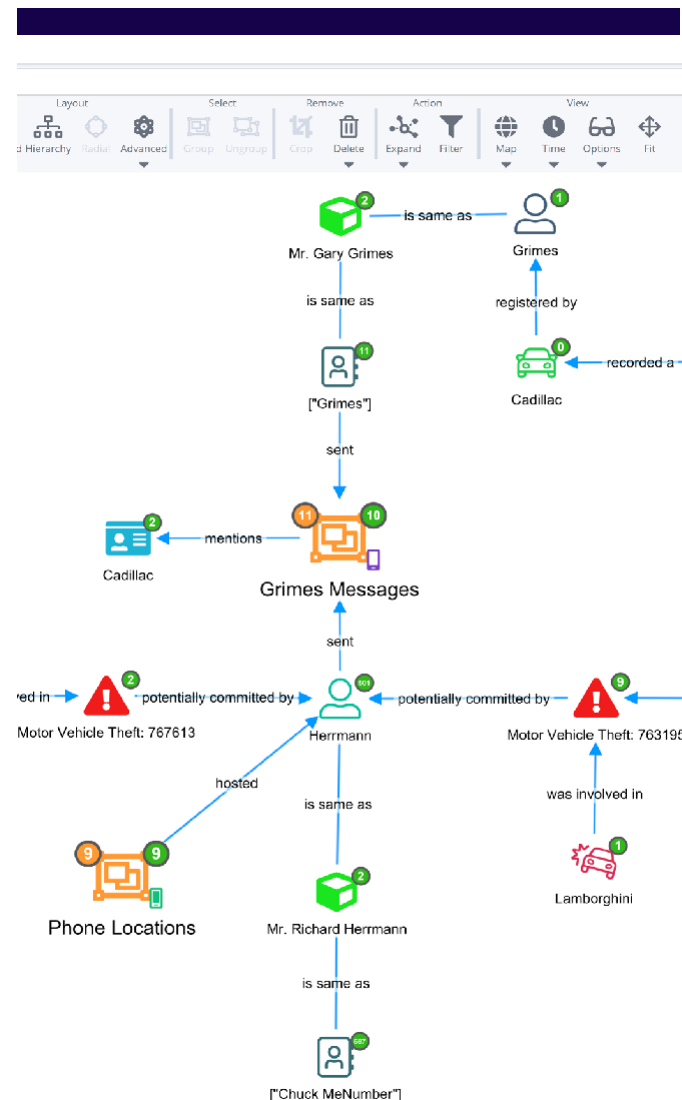
Network graphs convert blurred information environments into precise signals in high-tempo, high-consequence counter-narcotics environments across the United States, Latin America, Europe, and Asia.

## After-Action Surveillance, Assessment, and Continuous Threat Suppression

After a precision targeting action is taken, network graphs have additional strategic utility in the domains of after-action surveillance, assessment, and continuous threat suppression. Network graphs enable real-time monitoring of how threat networks react, 'flex out', and attempt to modify their shape.

and function in response to a direct hit. With these methods, leaders in law enforcement, intelligence, and the armed forces maintain a continuously evolving information edge to augment their tactical advantage.

This enables the continuous threat suppression or outright destruction of synthetic narcotics trafficking syndicates that are deliberately causing tens of thousands of deaths across the United States.



## Why Siren?

Siren is not solely a technology partner. We are also a team of seasoned strategic intelligence specialists who have a definitive vision of the future of national security technology and are committed to realizing that vision for our partners. Our technology is unique, proven and continually evolving in line with global developments. We are also constantly scanning the threat environment to identify and assess rapidly emerging challenges and to determine the optimal uses of Siren's network graph capabilities. This is our Commitment.

## About Siren

Siren provides the leading Investigative Intelligence platform to some of the world's largest and most complex organizations for Investigative Intelligence on their data. Rooted in academic R&D in information retrieval, distributed computing and knowledge representation, the Siren platform provides integrated investigative intelligence combining previously disconnected capability of search, business intelligence, link analysis and big data operational logging and alerting.

Among Siren awards are Technology Innovation of the Year and the Irish Startup of the Year (Ireland's National Tech Excellence awards). In 2020, Siren was named as a Gartner Cool Vendor in an Analytics and Data Science Report. For more information, visit [www.siren.io](http://www.siren.io)





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