

Correlation Technology

An Innovative Solution to Complex Business Challenges

What is Correlation Technology? Correlation Technology is software that seeks to emulate the way the human brain acquires, stores and utilizes information to solve complex business challenges.

How does Correlation Technology work? Information from the world around us is stored in our brains. We store all of this information as small pieces of knowledge in our memory. These small pieces are known as “Knowledge Fragments”.

Our brains can connect Knowledge Fragments in any way we want -- without limitations. Thousands of times each day we link together Knowledge Fragments to form “Correlations”. Correlations can be used to find new creative solutions to some of the most complex challenges facing humanity today.

Correlation Technology acts like a Big Huge Brain to help us store, recall and connect information in this exact same way. Besides problem solving, it can show us the impact connections between Knowledge Fragments have on our lives, use the knowledge of that impact to make better decisions and even suggest the potential outcomes of our decisions.

In a world of almost limitless information, Correlation Technology can help us find the best answers to our questions, and manage information easily and automatically so we humans can take action to bring about meaningful change in our environments and universe.

So what makes the Correlation Technology solution different? To solve critical problems, enterprises are typically obliged to adopt software solutions that are based on three techniques: Subjective Statistical Methods, Massive Semantic Infrastructure and Brute Force Computations. These solutions attempt to provide a framework through which information can be structured in order to produce certain outcomes. Systems utilizing these solutions are often complex and expensive, and yet cannot exhaustively comprehend the intricate web of relations in corpora, understand the nuances and complexities of formal and informal human expression, or deliver the actionable insights expected of next generation computer intelligence.

In contrast, Correlation Technology can power solutions that are a more natural fit for these critical problems. Fully automated Information Retrieval, Extraction, Knowledge Discovery and Visualization phases can exhaustively gather information sources, extract structured and unstructured information from those sources, discover all connections and relationships between data points, and perform analyses on this connected pool of Knowledge Correlations to produce only the most relevant and insightful outcomes. Correlation Technology is revolutionizing the way data is handled to provide a distinct advantage to those who leverage it. This innovation is harnessed through the Correlation Technology Platform.

What's the Correlation Technology Platform? The Correlation Technology Platform (CTP) is a software platform. A software platform is the foundation on which all enterprise software applications are built. It allows developers to easily extend and specialize the programs and processes they build.

The Correlation Technology Platform solves complex N---Dimensional problems challenging enterprise and government. All components of the CTP are patented, unique in function, and individually modifiable in order to best serve enterprise and government initiatives across a wide range of vertical markets. There are four major components: Discovery, Acquisition, Correlation, and Refinement.

The Discovery component handles eligible resource identification. Eligible resources are any and all data that a vertical market company or customer decides to include in a corpus. The Discovery component recognizes when resources are added, modified or removed. Resource volatility management functions operate on a continuous loop and provide completely automated updates to the inventory of eligible resources.

The Acquisition component reads all resources identified by Discovery and decomposes them into Knowledge Fragments, which are then collected into an infobase. It can understand idiomatic and vernacular word and concept associations, as well as specialized nomenclature word and concept associations.

The Correlation component associates all possible Knowledge Fragments into Correlation Chains until no further connections can be found. All results from the Correlation process are placed into a specialized "Answer Space" for use by the proprietary software application layer. This component is how the CTP mirrors the human brain's ability to discover and use connections between data points to supply its own flexible framework, resulting in more natural---fitting outcomes.

The Refinement component is where Applied Analytics specialize use of the Answer Space results based on vertical---specific functionality. The Refinement functions of the CTP will implement the intellectual property of the customer or client. Enterprises will gain and protect competitive advantage by obtaining patents for their specialized use of the CTP.

The Correlation Technology Platform is deployed in each market via specialization and extension of the CTP via APIs. The appropriate CTP components will each receive their own specialization and extension via API to serve the software application layer and to any other functional layers as well.

Make Sence, Inc. the owner and distributor of the Correlation Technology Platform has developed flexible business participation options to enable partners and licensees to fully realize the competitive advantage gained from the power of Correlation Technology. Correlation Technology has potential applications in many domains including:

- Legal E---Discovery
- Legal Precedent and Analogy Discovery
- Automated News Analysis
- Local Impact Discovery
- Enterprise Search
- Patent/Prior Art Discovery
- Computer Security (Multi---modal)
- Research Support
- Qualitative Analysis
- Qualitative Research
- Psychometric Assessment
- Event Study and Analysis
- Anti---money Laundering
- Counter Human Trafficking
- Mining and Mineral Extraction
- Black Swan Model Validation
- Electronic Signal Analysis
- Enterprise Risk Management
- Corporate and Regulatory Compliance
- Predictive Analytics
- Text Mining
- Enterprise and Computer Decision Management Systems
- Human Resource Management
- Business Intelligence
- ...And more...

Our team of consultants, technicians and analysts will work with you to discover how Correlation Technology can be applied and utilized in your specific vertical market sector.

CALL OR EMAIL TO SEE A LIVE WEBEX DEMONSTRATION OF THE CORRELATION TECHNOLOGY PLATFORM

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TECHNICAL SPECIFICATIONS:

The Correlation Technology Platform:

Language:	JAVA	
Operating System:	Fedora/RedHat Linux	
RDBMS:	PostgreSQL	
In---memory OODB:	Proprietary	
Applied Analytics:	Application Specific	(Application Dependent)

System Requirements:

Implementation

Architecture:	Grid/Role:	(Application Dependent)
	User Session	
	RDBMS	
	Discovery (Inventory Management)	
	Acquisition	
	Correlation	
	Refinement (Applied Analytics)	
	Presentation (Visualization)	
Memory Requirements:	96 GB – 50TB	(Application Dependent)
Number of Processors:	4 x 8 core – 192 x 8 core	(Application Dependent)
Processor:	Intel® Xeon® processor E5---4600 product family or equivalent	
Capacity*:	10.00M – 5.25B Plain Text Pages (\bar{X})	
	3.25M --- 1.75B Web Pages (\bar{X})	

*Notes: Capacity is calculated conservatively with all system overhead distributed on a per page basis. Actual capacity may be greater.

Supplemental mezzanine board/SSD---based staging configurations will dramatically increase capacity.