The Fourth Industrial Revolution - What Does It Really Mean?

Driven by advances in cognitive computing, robotics, IoT, machine learning, speech recognition and other technologies, the fourth industrial revolution has the promise to dwarf the last three in impact.

Over the last few centuries, the steam engine has shaped geopolitics and laid the foundation for modern societies. Electricity has driven accelerated innovation in every aspect of human life for over 100 years. The transistor - cornerstone of electronics, internet, and social media - is part of every definition of modern existence within decades. The third industrial revolution has also enabled people to merge their dreams, thoughts, and endeavors in a single, ephemeral collective.

Now we are on the cusp of another wave of transformations that has the promise to dwarf the impact of first three. The fourth industrial revolution is the anticipated change in human behavior, human capability and human potential driven by artificial intelligence. It has the promise that humans can focus on tasks involving creativity or judgment, while technology will take care of everything mundane.

As with any revolution, it is already afoot unnoticed in small changes. These steps will aggregate to a powerful reality; good reality or bad is yet to be determined. Today's Echos, Teslas and Pandoras are already prominent in homes. Many other household names use AI to power them behind the scenes. This blog focuses on what we know best - use of tactical cognitive computing in enterprises.

The fourth industrial revolution is already afoot in small changes across homes and enterprises. These changes aggregate to a very powerful reality.

Consider something mundane, like generating a purchase order. For any organization with multiple BUs and multiple locations, usually there are multiple contracts with multiple vendors for each item. Usually these contracts are not centrally collated; almost always they are not digitized. So the purchase manager does anecdotal research for a few hours and pulls up contracts that they can remember or serendipitously find. Then they convert the requisition to an ad hoc work order. They may also call the vendor to confirm some aspects, or to ensure that their contract is still valid. Finally an inefficient purchase order goes out.

That is the past. Now, artificial intelligence can ingest all the contracts seamlessly. For any requisition, the cognitive system can figure out the best option among these contracts, then compare with publicly available options and place the right order. The executive now saves their time and finds the best possible answer. This is something very unglamorous, simple, yet so full of potential.

Now consider something more fundamental. Enterprises the world over have capable executives make decisions about routine issues everyday. These decisions are issued,

reported, and filed, and then lost forever. A similar issue elsewhere, or at a different time, has to be dealt starting afresh. With cognitive computing, on the other hand, AI keeps track of everything and makes the entire history available on fingertips, likely behind a natural language search interface. Using AI the unparalleled experiences of the organization - its institutional memory - comes to life.

The promise of the fourth industrial revolution is that humans can focus on creativity and judgment, while technology takes care of everything routine.

Each of these is an example of small improvements in productivity. As more and more such workflows are taken over by AI, it is easy to imagine an operation where humans are focused on improving its performance, and not running it. Then it is not hard to imagine the leaps in innovation, quality, invention or creativity this organization is likely to make.

Tactical cognitive computing is but one soldier. Advances in robotics, IoT, machine learning, speech recognition, and many other fields are empowering decentralized decision-making. Everything is conspiring for the fourth industrial revolution, something that is likely to make revolutions routine.

Take the next step in your understanding of tactical cognitive computing by [setting up a meeting with our tech team.](#)

What is Next-Generation Enterprise Search?

Coseer's search solutions are transforming industries from healthcare to finance. Our point-and-shoot AI trains finds answers and insights with 95%+ accuracy within 4-12 weeks - all of this in 100% security. The reason? We founded Coseer on the principle that computers should take care of the boring stuff so that humans can focus on creativity and judgment. To that end, we've built enterprise search solutions to complete complex workflows just as humans would in a fraction of the time. Fortune 500 leaders are using Coseer to speed up and automate their most complex work.

We follow a tactical approach to enterprise search:

- We deliver 95-98% accurate solutions within 4-12 weeks.
- Our solutions deploy entirely behind your own firewall for 100% security, and every decision point is logged for full transparency.
- You add the finishing touches, but our point-and-shoot AI practically trains itself. No more huge training data sets or time wasted annotating and tagging.

Visit our [website](#) for in-depth case studies, ROI breakdowns per industry, and other insight.