Trisotech the Disruptor!

Cover Story

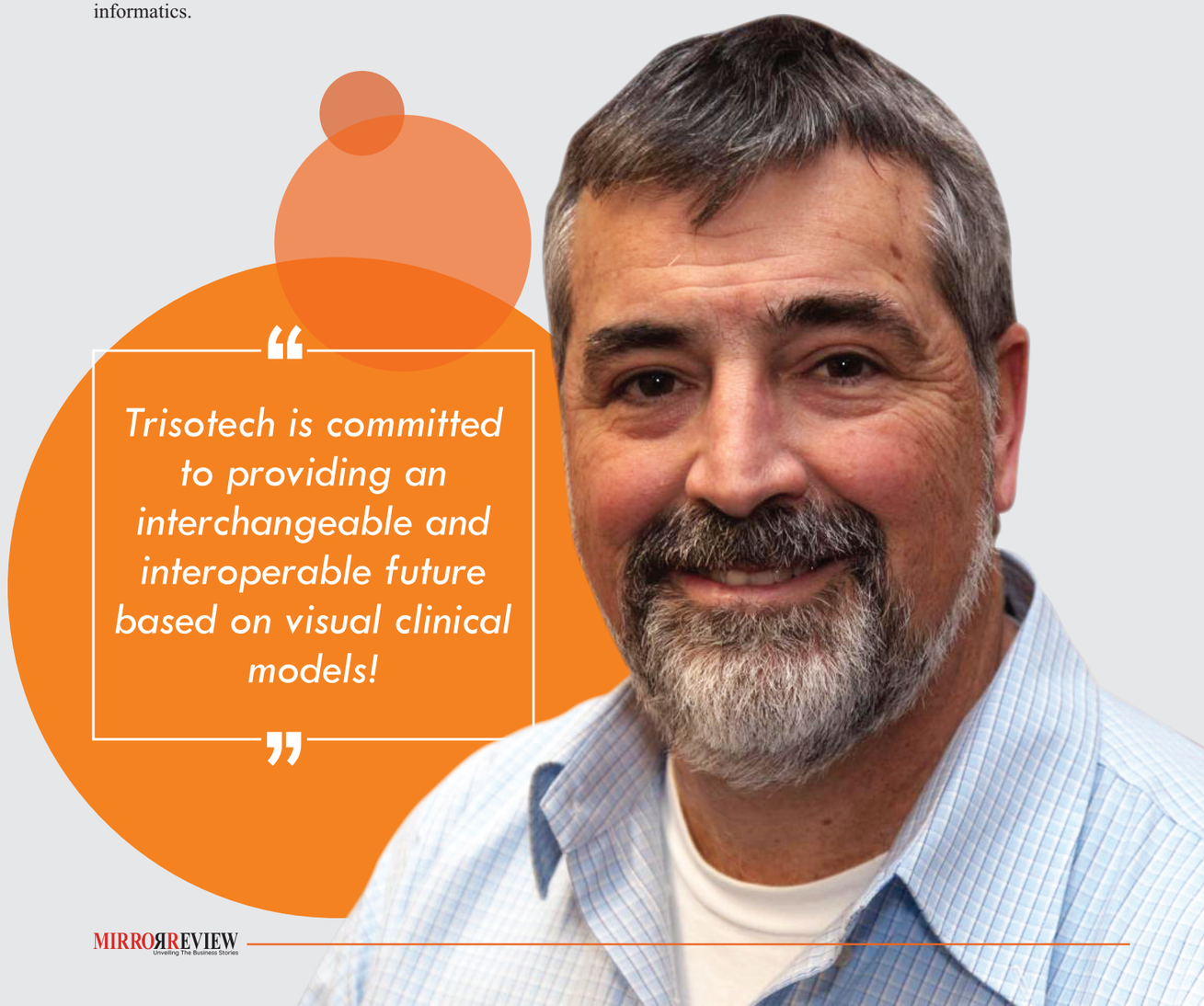
Trisotech is disrupting the Healthcare Information Technology Market by empowering the development of visual shareable clinical guidelines and pathways to tear down the wall that exists between clinicians and informaticians. To enable this disruption, Trisotech offers clinicians a simple to use modeling environment where workflows and decision logics are visually created by the Subject Matter Experts (SME) themselves. This puts clinicians squarely at the heart of the solution.

Denis Gagne CEO & CTO of **Trisotech**, sees **software interoperability**, **evidence-based medicine**, and **automatable clinical guidelines** as three of the most critical and challenging areas that need improvement in the HIT industry. These are also the most prominent changes that took place in the industry during the last couple of decades. Clinical practice is widely based on data and analytics. Care providers are incorporating more and more data into their day-today clinical operations and decisions, which is now referred to as evidence-based medicine. This allows clinicians to make critical decisions not only based on millions of previous cases but also to achieve better and more precise results.

The Wall

Informaticians stand on the other side of the wall, as data accessibility is the main issue that they must address to make the clinicians the center piece of the solution. The systems that most care facilities use to store patients' information are called the Electronic Medical Records (EMRs). The problem is that these systems are known to be closed to other systems that might want to interact with their data, which makes data accessibility limited or even impossible.

The obvious solution is to make this data accessible to other computers and networks and thus create an environment for the Clinical Decision Support system. However, this can be taken a step further by making the information consumable by computers. The combination of the standard-based process and decision modeling techniques makes it possible to create models that completely translate the guidelines into visual diagrams and thus make this data widely available to computer systems. Trisotech views sharable clinical pathways and guidelines as reusable knowledge artefacts that can interact with their global information environment via modern healthcare standards such as FHIR and CDS Hooks. These high valued artifacts can then be adapted and customized to the local reality of the organization that adopts them. Informaticians can integrate this new component within their IT environment thus tearing down the wall and changing the future of healthcare informatics.



> *"Trisotech is committed to providing an interchangeable and interoperable future based on visual clinical models!"*

> *Trisotech's Digital Enterprise Suite brings strategy, design and technology together providing your organization with insight for gaining competitive advantage.*

A Great First Step

Denis Gagne is an active contributor to the Object Management Group BPM+ Health taskforce. Trisotech has shown interest in the HIT industry sector after his participation in the development of Field Guide to Shareable Clinical Pathways. The Field Guide positions the HIT industry and technology implementation as follows:

"Despite major increases in the power and flexibility of computing there remains a gap between our ability to implement technology and our ability to understand how that technology will impact the performance of care. Synchrony between information flow and the appropriate workflow of clinical care is a key principle for usability efficiency, and care quality. When HIT design decisions are not based on improving the efficiency and quality of clinical health care, the resulting solution can rearrange clinical workflow by accident rather than by design. This Guide aims to make an explicit, understandable connection between HIT and the methodical improvement of clinical health care."

In support of these lofty goals, Trisotech provides a clinician-friendly modeling environment that creates standard-based models. These visual models have the unique characteristic of being interpretable both by clinicians and machines, making them fully automatable. Trisotech's modeling environment allows non-technical users to create automatable clinical guidelines. Their modeling tools enable simple and easy creation of process and decision models.

The environment is designed in such a way that every resource can manage their own responsibilities inside the models, as well as initiate the DevOps process with one-click conversion to microservices. The company offers the so-called Trisotech Service Library that makes the generated microservices readily accessible. IT staffs can use this tool to access the full API invocation template of auto-generated service endpoints (including CDS Hooks) for external system integration. Keeping in mind that Trisotech's main goal is improvement of patient care, they offer flexibility by allowing organizations that create the automatable clinical guideline to choose between using the entire models or invoking the microservices within their existing systems.

Trisotech is taking on the HIT Market

Growth, **development**, and **improvement** are Trisotech's main **goals** in every sphere of their business, from technology implementation to partnerships. Trisotech managed to establish a presence on the market despite much bigger competitors. They've accomplished this by not only leveraging their knowledge and expertise in Business Process Modeling Notation (BPMN), Decision Modeling Notation (DMN) and Case Management and Modeling Notation (CMMN) but also by driving the technology to the point of automation. This results in lowering barriers to entry for their clients by making the modeling visual and clinician friendly. When you couple that with state-of-the-art automation you get a huge leap that is disrupting the norms of the HIT Industry. Denis Gagne says, *"Working with Colleges of Medicine and large Health care providers, we have been enabling them to understand and embrace the value of visual clinical guidelines and pathways. When they couple these visual models with micro-services and further automation, we pave the way for the intelligent clinical processes, integrating intelligent decisions and case management."*

Having in mind the growing maturity of the market, Trisotech is expected to grow rapidly and internationally thanks to its successful SaaS model. The company already has plans to expand their markets in Europe and Asia through healthcare innovations as part of the BPM+ Health initiative by the Object Management Group. When it comes to Trisotech's vision of the future of healthcare, they predict that it will be driven both by leveraging data to enable fast and efficient methodical improvement of care, and the ability to relate it to interoperable Health IT systems.

Why is Trisotech a contender?

Trisotech is disrupting the Health Information Technology (HIT) market by tearing down the wall that exists between clinicians and informaticians. To enable this disruption, Trisotech offers clinicians a simple to use modeling environment where workflows and decision logics are visually created by the Subject Matter Experts (SME) themselves. By using international modeling standards, Trisotech ensures that the resulting visual models are not only understandable by clinicians but are also interpretable by machines. These automatable pathways and guideless becomes key components of the HIT architecture of the future.

Trisotech views sharable clinical pathways and guideline as reusable knowledge artefacts that can interact with their global information environment via modern healthcare standards such as FHIR and CDS Hooks. These high valued artifacts can then be adapted and customized to the local reality of the organization that adopts them.

The future of the HIT industry is boundless and evolving. According to Gagne, *"Trisotech is committed to providing an interchangeable and interoperable future based on visual clinical models!"* MR

> *Trisotech is led by the original core management team, innovating to transform the DNA of the organizations of the future.*