

# The Rise of the Process Digital Twin

To be very clear, and hopefully not too confrontational, there is absolutely no way to systematically improve your business processes before understanding what they currently are and, most importantly, how they perform. With one of the biggest frustrations, at work, for employees being poor internal processes – you can only imagine how their frustrations bleed through and affect end users customers.

To understand how our internal business processes actually work, up until now, took traditional process evaluation methodologies that heavily relied on manual, sampling-based process discovery, mapping and analysis. However, such evaluation methodology, has long been regarded as costly, subjective and painfully slow. Moreover, these methods often fail to keep pace with leadership's rapid fire performance improvement demands as the digital shift picks up steam.

In the modern age, one of the side effects of the digital era is the wealth of data captured by every platform involved in an organization's business operations. The challenge – and phenomenal opportunity – is to cost effectively and easily convert the plethora of data points generated by these operational systems, into a comprehensive, understandable and useable end-to-end view of process execution.

Before you try - Business Intelligence (BI) does not solve this challenge. BI, is fantastic at providing any number of weird and wonderful point in time snapshots of key business metrics, but it fundamentally struggles with joining any temporal series of events together and fails miserably at providing any meaningful, process based, analytics.

There is, however, an answer: A platform designed specifically to aggregate and organize the data points left behind in the audit logs of any existing software application. This field of study emerged around 2010 as process mining, and has now evolved into a class of products collectively referred to as "Process Intelligence". Process Intelligence is a, fast emerging, essential business strategy that will enable organizations to take control of their processes and provide an opportunity to drive towards continuous and sustainable process excellence through the utilization of an interactive "Digital Twin".

For the first time, it is now possible to visualize and understand how your operational processes are really executed end to end, in all their wonderful (and scary) variations, across any number of systems period Sophisticated process intelligence tools make it easy to identify impactful process deviations, reveal potentially high ROI efficiency improvements, expose glaring compliance risks, and zero in on the root causes of specific behaviors. Effectively Process intelligence brings diagnostic analytics to augment any existing analysis efforts therefore making it extremely complementary to any existing BI investments.

A Process Digital Twin not only delivers 100% visibility for any process flow executed by your IT systems, it makes it possible to understand the complex dynamics that drive unexpected or undesired behaviors. Chances are you already have a significant investment in enterprise IT systems, as well as any of a variety of departmental systems. These ensure every meaningful piece of information is tracked and saved for later analysis.

## Build Your Own Process Digital Twin

The digital twin concept is at the heart of the ABBYY Timeline Process Intelligence platform but it does not stop at a retrospective view of how your processes have been executed. It becomes a living interactive visualization of how your processes

Own your data.  
Understand your process.  
Predict the future.  
Perform more efficiently.

are actually performing in real time. Once a process has been visualized, analyzed, assessed and optimized don't settle for any backsliding, graphically build in execution rules and automatically monitor for deviations in real time process flows.

KPI's, SLA, sequence execution, compliance rules build them and forget about them until process deviation triggers action!

Now add in to the mix an ability to predict timings of activities process outcomes and you are really understanding the power of an interactive, modern age digital twin.

Timeline Process Intelligence unlocks more of that value by automatically Discovering process flows, providing sophisticated tools to Analyze process behaviors, helping you Optimize productivity and improve customer satisfaction. Monitor process execution in real time to sustain peak performance. And finally the holy grail, Predicting process outcomes early in the sequence, and in turn ensuring positive results.

With the ability to understand process data in more detail, it allows analysts to provide more information about how their business' processes flow and which processes need to be improved. This provides the company with more value as it will reduce time and costs spent on uncovering and improving inefficient processes.

## Understanding your business process just got easier

Building an interactive Digital Twin is key to a sophisticated process intelligence strategy. Analyzing process data has always required a lot of work with minimal results. No matter what process was being analyzed the business needs put demands on manually reviewing or writing endless code in order to get answers. These answers still missed the mark in providing accurate, in-depth process insight and understanding. Manual process assessment provides dated, sometimes inaccurate, and often subjective feedback. Now with Process Intelligence, there is no need for coding and uploading data happens in real time.

With a point and click interface and automatic KPI calculations, Timeline Analysis technology helps take process analytics to the operational level.

Process stakeholders need to understand all aspects of their processes like where and when tasks happen, what procedures are supposed to be followed and under which conditions they are happening. Most of the time though, process leaders do not have the proper tools or resources to investigate their process through its entire lifecycle ensuring 100% accuracy and reliability. While traditional business intelligence tools provide big picture information, they do not provide the diagnostic analytics that provides the business user with a detailed description of what is happening in terms of the processes across business units, regions, or IT systems.

We are in the era of BIG DATA and our systems of record contain a plethora of valuable information. With this information, business users can now detect bottlenecks that might be causing errors or increased lead time, reveal the most frequent execution paths, expose broken process variations, and easily identify many other hidden inefficiencies within processes.

### Your Digital Twin

A Process Digital Twin will help you improve every aspect of your business process. Converting process data available your IT systems into actionable insight results in more accurate improvement decisions, made faster and at lower cost period the ABBYY Timeline solution offers organizations the confidence of making data driven decisions that have sustainable impact on any aspect of service delivery.

Gain full visibility of all your processes end to end, even when different steps of the process are performed using multiple back end systems. The result is the ability to build your own Process Digital Twin, where you can visualize and analyze complete processes even when there is no other place to find these details in your existing systems.

Our secure cloud based platform enables process discovery, analysis, automated monitoring, and prediction 24/7/365 anywhere in the world you can access a web browser.

### Ready to see your very own Process Digital Twin?

See how companies like yours are using Timeline Process Intelligence. Visit [www.abbyy.com](http://www.abbyy.com) to learn more.



If you have additional questions, contact your local ABBYY representative listed under [www.abbyy.com/contacts](http://www.abbyy.com/contacts).

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