Let us talk about pipeline digitizing strategies. Depending on product characteristics, survey and environmental conditions, used software, we set up workflow so to minimize processing time and guarantee result quality. When it comes to large and complex IRM projects, we normally try to digitize as much as possible using automatic tools, then perform QC and correct automatic digitizing errors. QC of each digitized profile, even though you trust your automation, is considered a good practice. This is the usual strategy which works fine when the product is well defined on the background seabed, noise level is reasonably low and overall data quality is good and consistent. The strategy involves fast and accurate automatic product placement, minor manual intervention during the QC.

Reality is not always as good. We often face various difficulties like data noise and low resolution, fish schools, small diameter products, easily lost on seabed features background, etc. Do not forget about seabed markers that we have to place. It is often even more challenging than TOP. Apart from that, most industry automatic processing tools are designed so you cannot change settings ‘on-the-fly’ to respond to changes in conditions. You must set up the tool, then do processing of certain product part, then either accept the result and do manual edits, or re-set and re-process, hoping that it works better. Finally, your automation may simply turn into manual digitizing. Apparently, the above strategy may take longer than expected.

The other approach is implemented in justPipe digitizing tool. Fully automatic processing is still available. Though, step by step digitizing with automatic product and seabed markers placement is preferable. Such an approach allows for fast automatic digitizing and QC in one pass. If manual intervention is needed, it may be done literally in one mouse click. Apart from that, it is very important that settings may be tuned ‘on-the-fly’ should conditions change. This strategy, supported by advanced pipe and marker detection algorithm, may substantially improve processing performance.

See below a short demonstration of justPipe flexibility. This is 28” pipe, piggybacked with DEH system. Using flexible settings, we can easily switch from pipe to DEH and back.

Since it was first introduced, justPipe development continues to meet various processing conditions. Recently it has been translated to a faster and more reliable interface. Some useful functions and options were added.