

# ANATOMY OF A SMART PIG

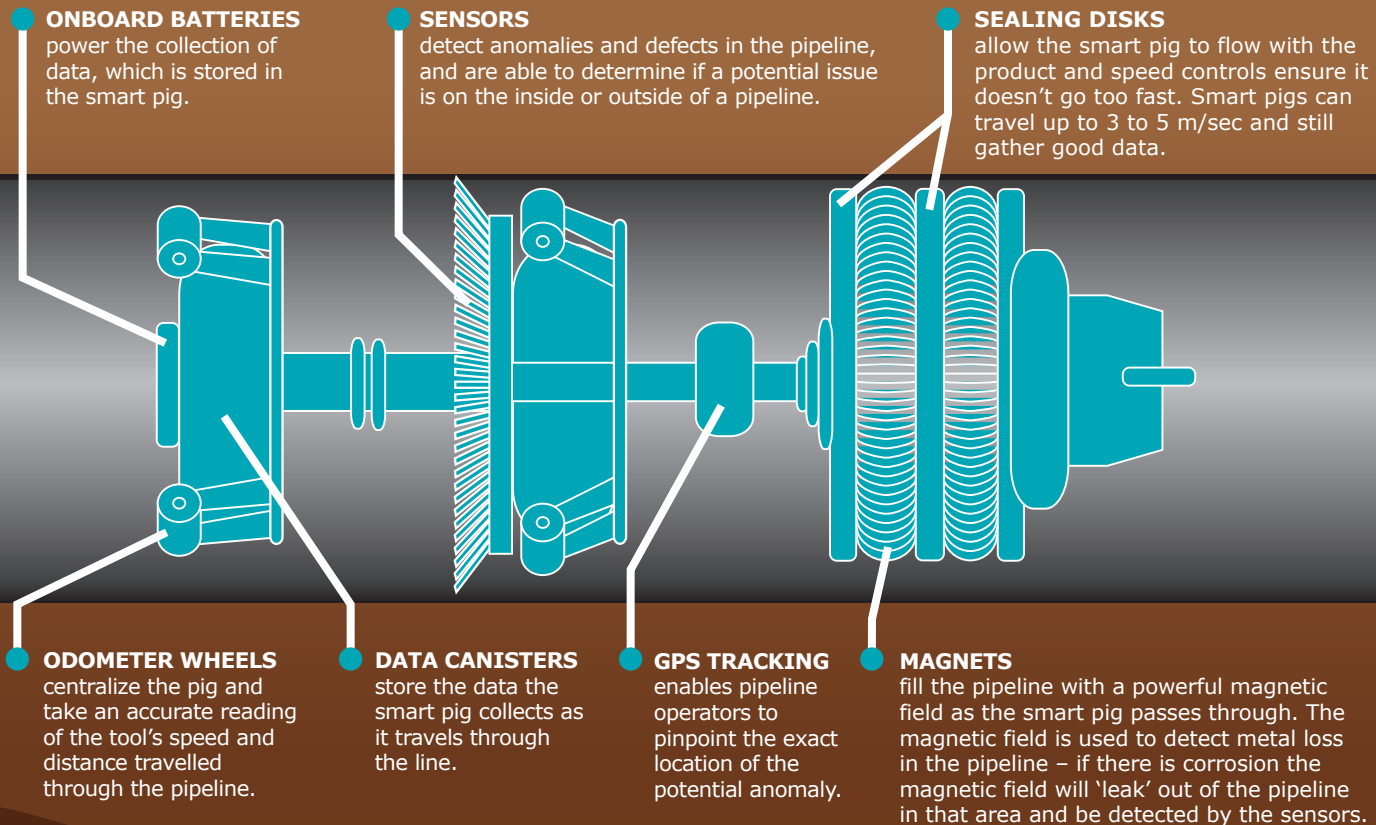


canadian energy pipeline association | association canadienne de pipelines d'énergie

Did you know that since the 1960s, pipeline operators have been using an increasingly sophisticated technology called smart pigs to 'see' inside their pipelines?

In fact, these 'pigs', which stands for pipeline inspection gauges, are one of the industry's main diagnostic tools. They travel through a pipeline to monitor its health, diagnose issues such as metal defects, forecast potential challenges and report any issues to the pipeline operator.

Smart pigs come in a range of sizes with varying features, customized to fit the pipeline they are monitoring.



## IT'S CALLED 'SMART' FOR A REASON!



Can inspect in all sorts of conditions, including liquids and gas pipelines, low pressure or heavy-walled pipelines.



A pipeline does not need to be shut down to be inspected; a smart pig moves with the flow of the product.



Can detect a broad range of problems, including dents, wrinkles, pipeline movement from ground disturbance and changes in wall thickness and pipe coating.



Advancements in sensors, batteries and software continue to improve its monitoring and detection capabilities.