4-SYTE SYSTEMSTRATEGY

ANALYSIS A

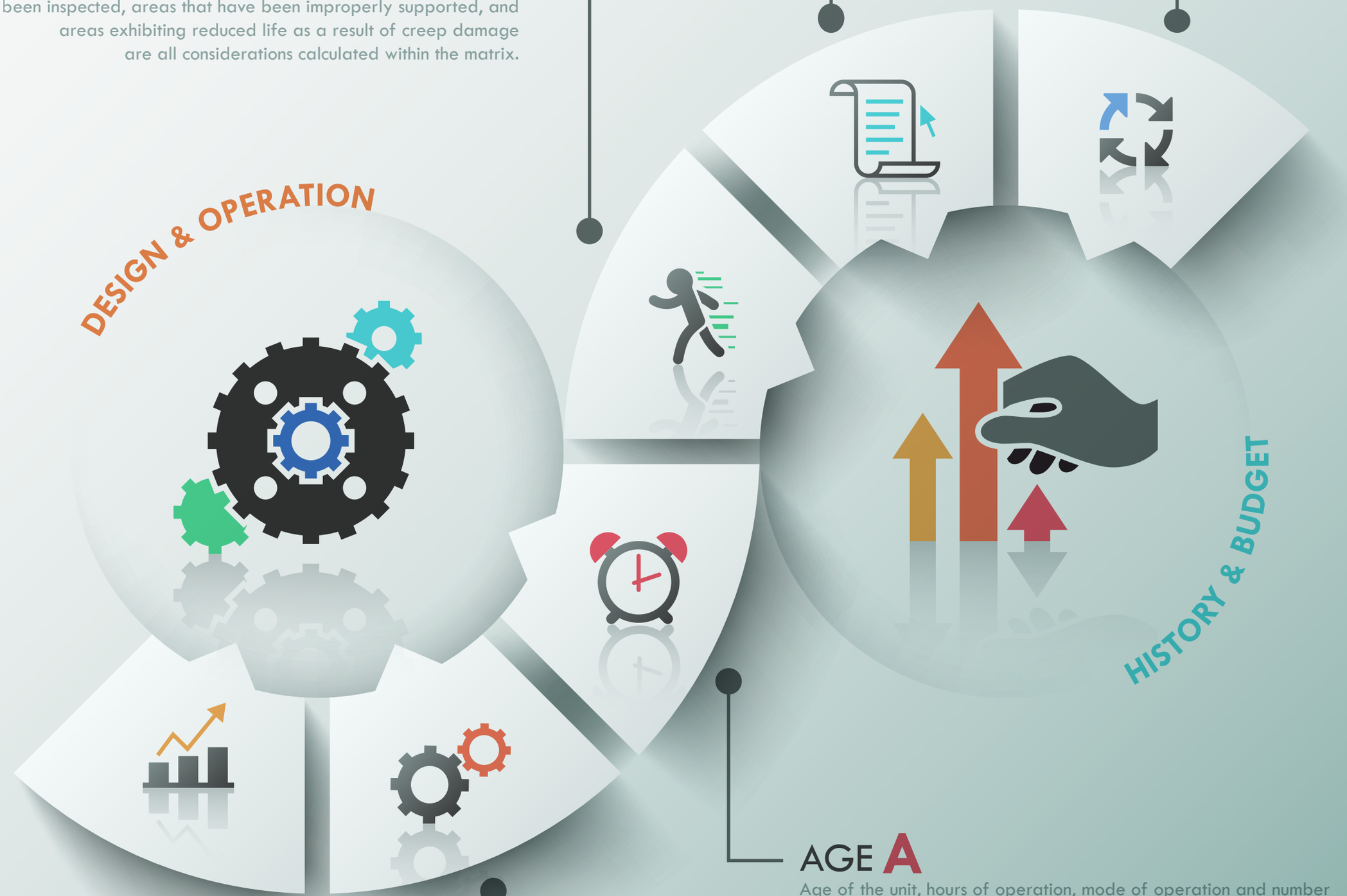
Inspection results are analyzed from all previous inspection records and any concerning issues such as improper support, damage, creep, repairs or replacements are calculated into the risk assignments

FINANCIAL F

Outage intervals, remaining life expectancies, and access for scaffolding and insulation are financial impact considerations applied to the matrix calculations.

SAFETY S

High traffic locations, seam welded pipe, areas that have never been inspected, areas that have been improperly supported, and areas exhibiting reduced life as a result of creep damage are all considerations calculated within the matrix.



AGE A

Age of the unit, hours of operation, mode of operation and number of cycles are all part of the risk assignment calculations.

STRESS S

Temperature, pressure, mode of operation, location, vibration, thickness differentials and piping support all play an integral part of the stresses in a weld; thereby increasing it's risk assignment in the matrix.

MATERIALS M

Piping specifications and design are factors calculated in the matrix including materials, outside diameter, wall thickness, weld type and joint type.

HIGH ENERGY PIPING
RISK MATRIX INFO-GRAPHIC

* Info-graphic represents a sampling of the considerations used in Thielsch's proprietary risk matrix and are not considered all inclusive.

THIELSCH ENGINEERING