Corrosion Challenge

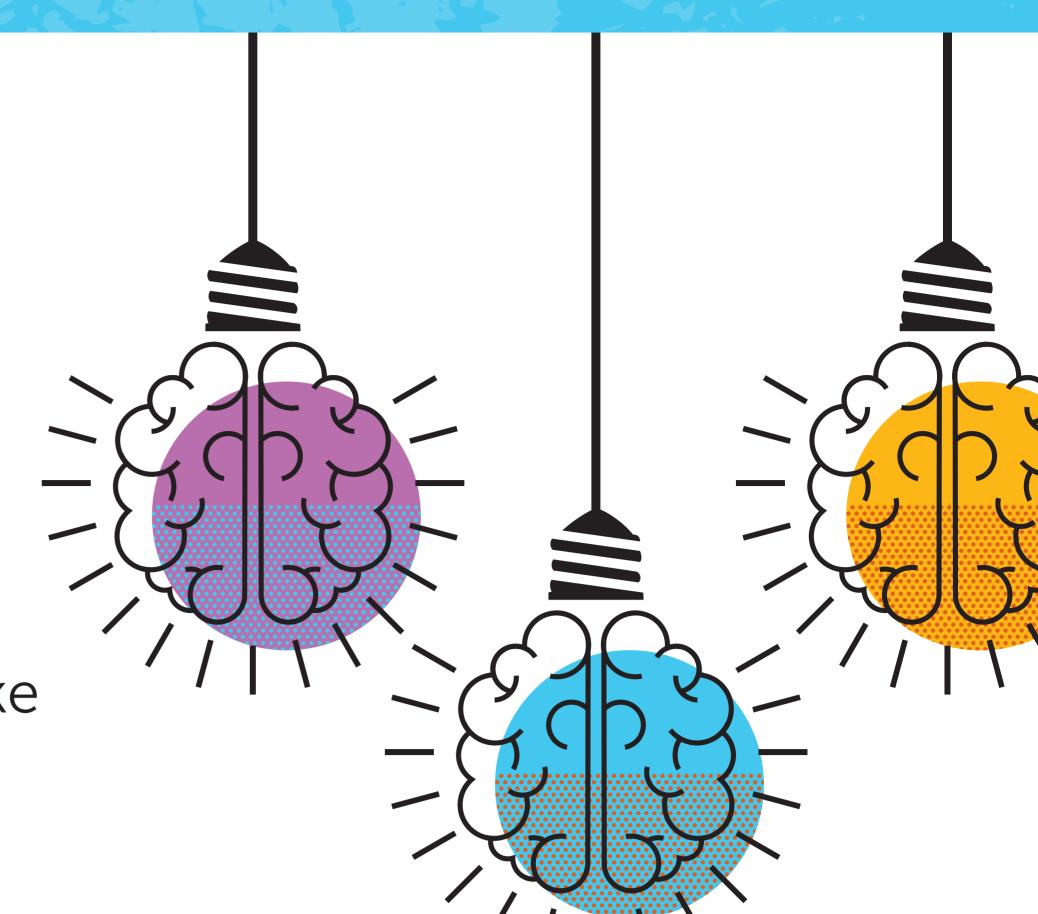




We're taking on corrosion...

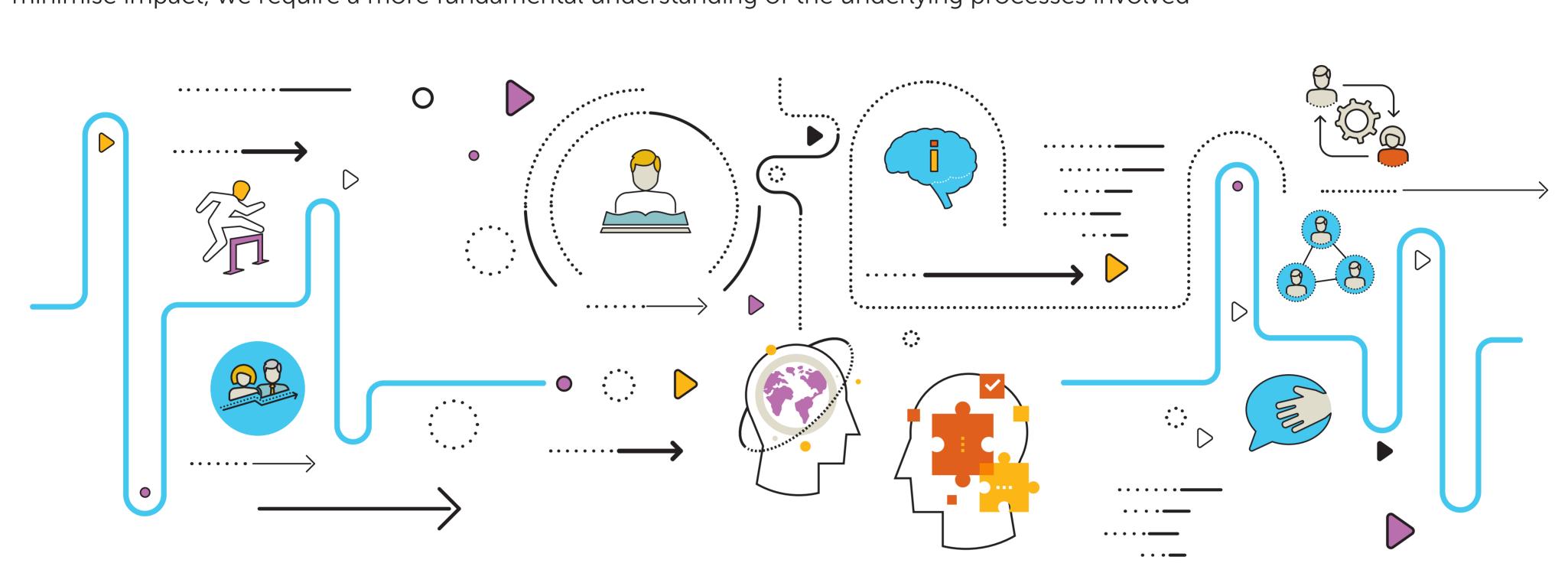
...and we need you

If your **expertise** could help shape a collaborative approach to tackling **corrosion**, don't miss the chance to take part in our new **innovation initiative**



The challenge for localised corrosion

Corrosion under insulation, microbial induced or catalysed by scales – why does one area of material corrode, while the rest is untouched? Localised corrosion is a real challenge in many industries and while we have processes and procedures in place to minimise impact, we require a more fundamental understanding of the underlying processes involved





Skills we require include:

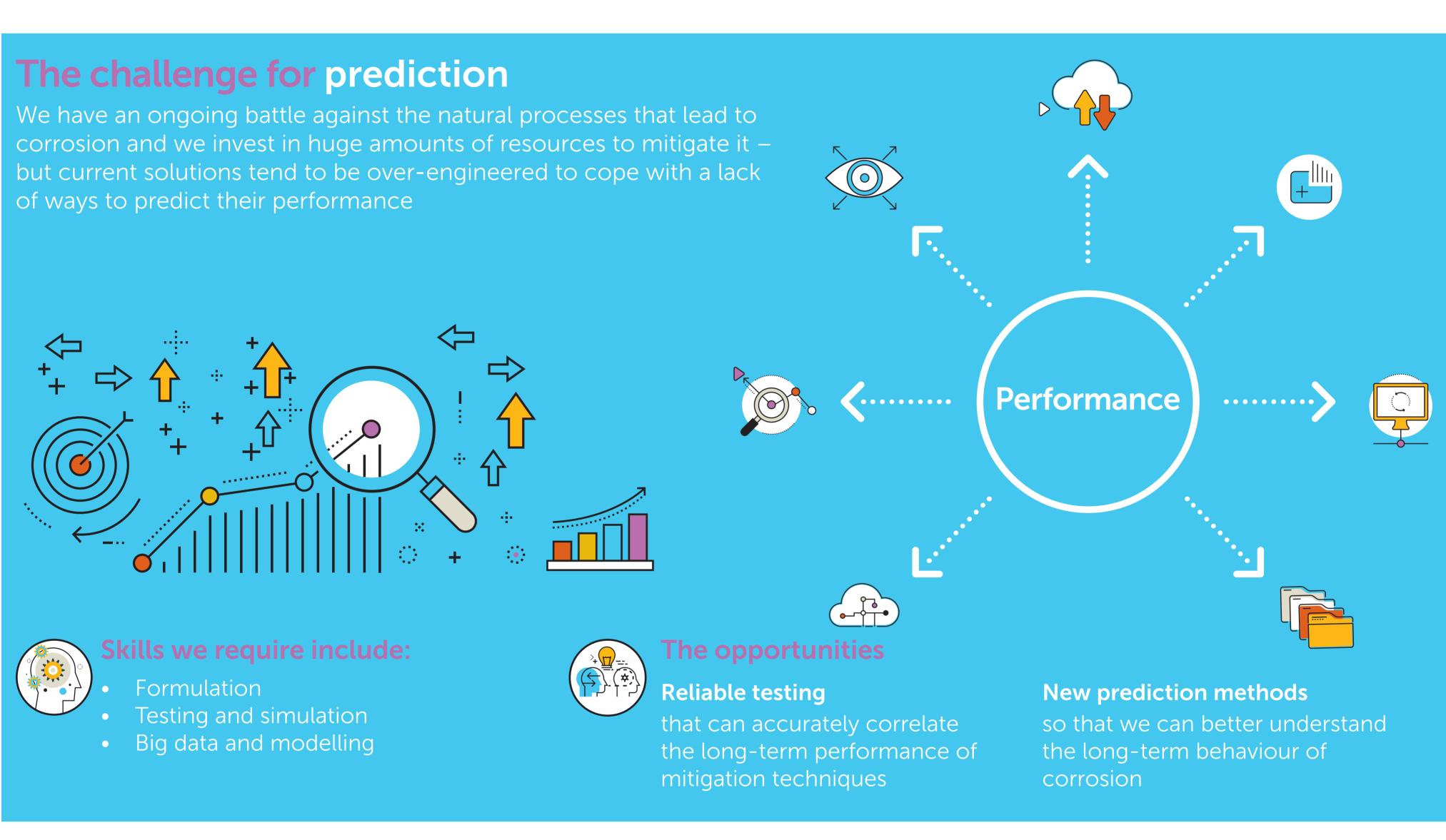
- Surfaces and interface chemistry
- Chemical biologyEngineering

The opportunities A multidisciplinary approach

that applies knowledge from different sectors to better understand the fundamental processes that cause corrosion

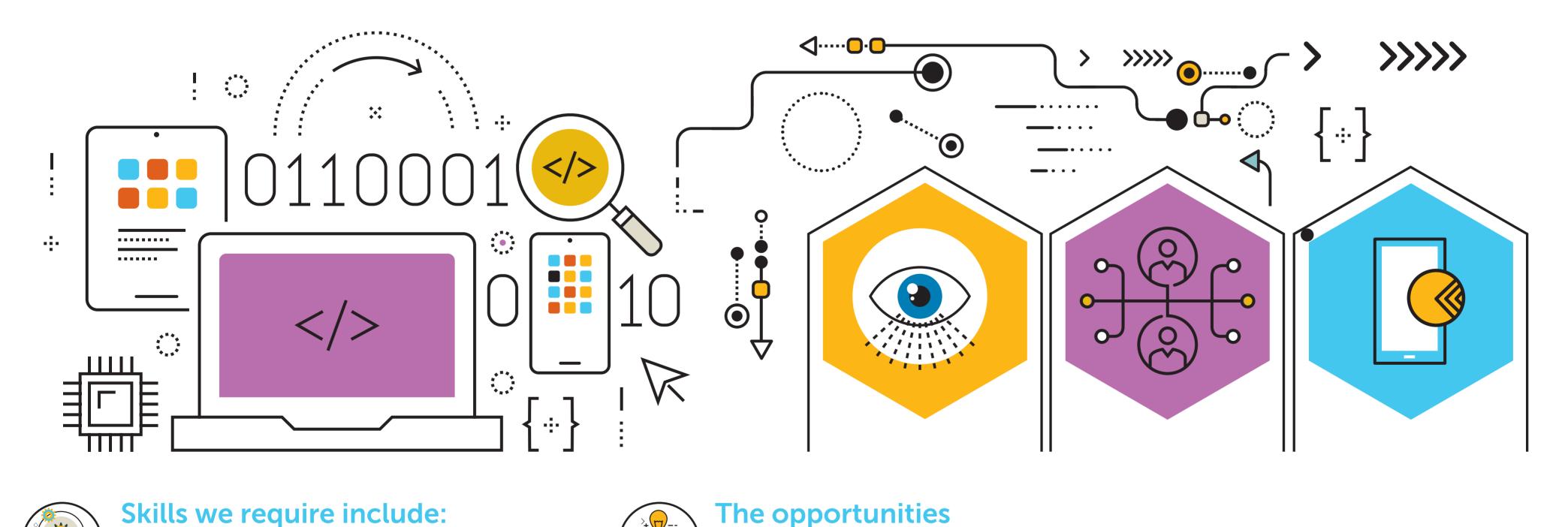
New mitigation techniques that combine traditional

empirical approaches with a deeper understanding of the corrosion problem



The challenge for monitoring & detection We can spot a galaxy 13.3m light years away, but we cannot quickly spot the warning signs of corrosion. There are many ways

to monitor and detect corrosion, but we rely on over-engineered solutions as our primary method of prevention





Sensors and diagnostics

- Data and analyticsInspection
- Inspection



New technology that helps us sense and detect

corrosion in inaccessible places

so that we can understand the long-term affects of corrosion and exchange knowledge between sectors

Failure analysis and inspection

