Evo Steel Co

EVO STEEL

MATERIALS THAT EVOLVE LIKE LIVING ORGANISMS

GROUP MEMBER

- R. Muhammad Fakhri Wirdiyan 20230140064
- Muhammad Naufal Ghulam F 20230140073
- Wahyu Agung P 20230140068
- Farhat Asharfillah 20230140093

INTRODUCTION

In the modern industrial era, the need for strong, durable and maintenance-efficient materials is increasing. Conventional steel, while strong, has the major drawback of being susceptible to **corrosion and strength degradation** due to time, pressure, or extreme environments.

Therefore, there is a need for new material innovations such as Evo Steel, a smart metal that strengthens over time and is completely corrosion-resistant, to meet the technological challenges of the future.

WHAT IS EVO STEEL?

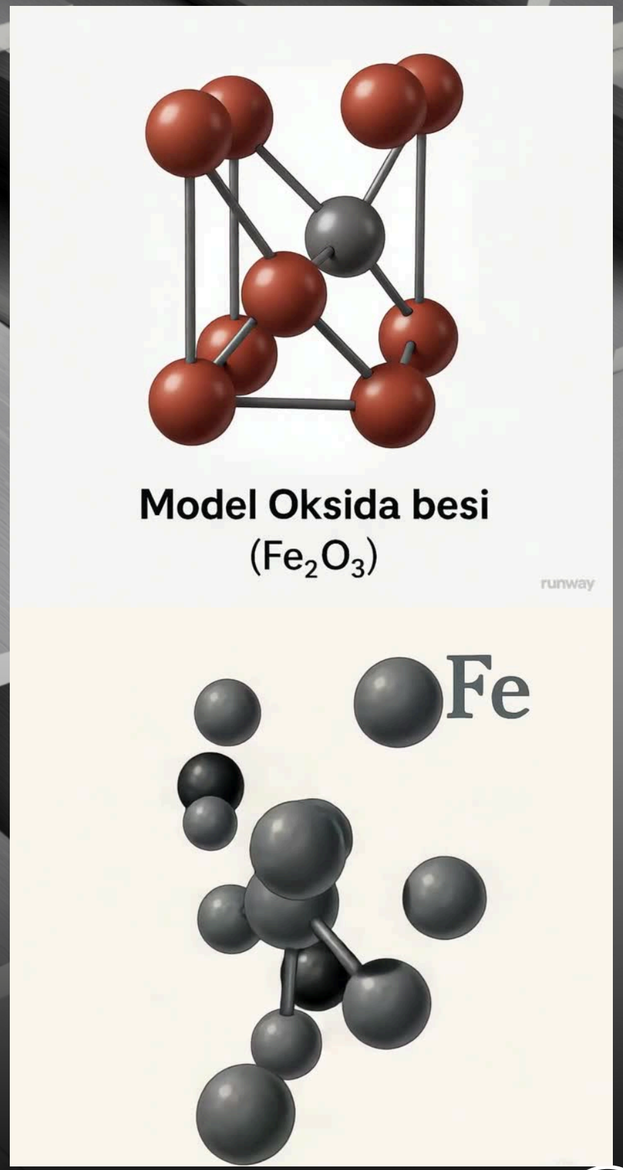
EVO STEEL IS A SUPER ADVANCED METAL THAT CAN CHANGE AND ADAPT DEPENDING ON THE SITUATION.

GETS STRONGER WITH USE

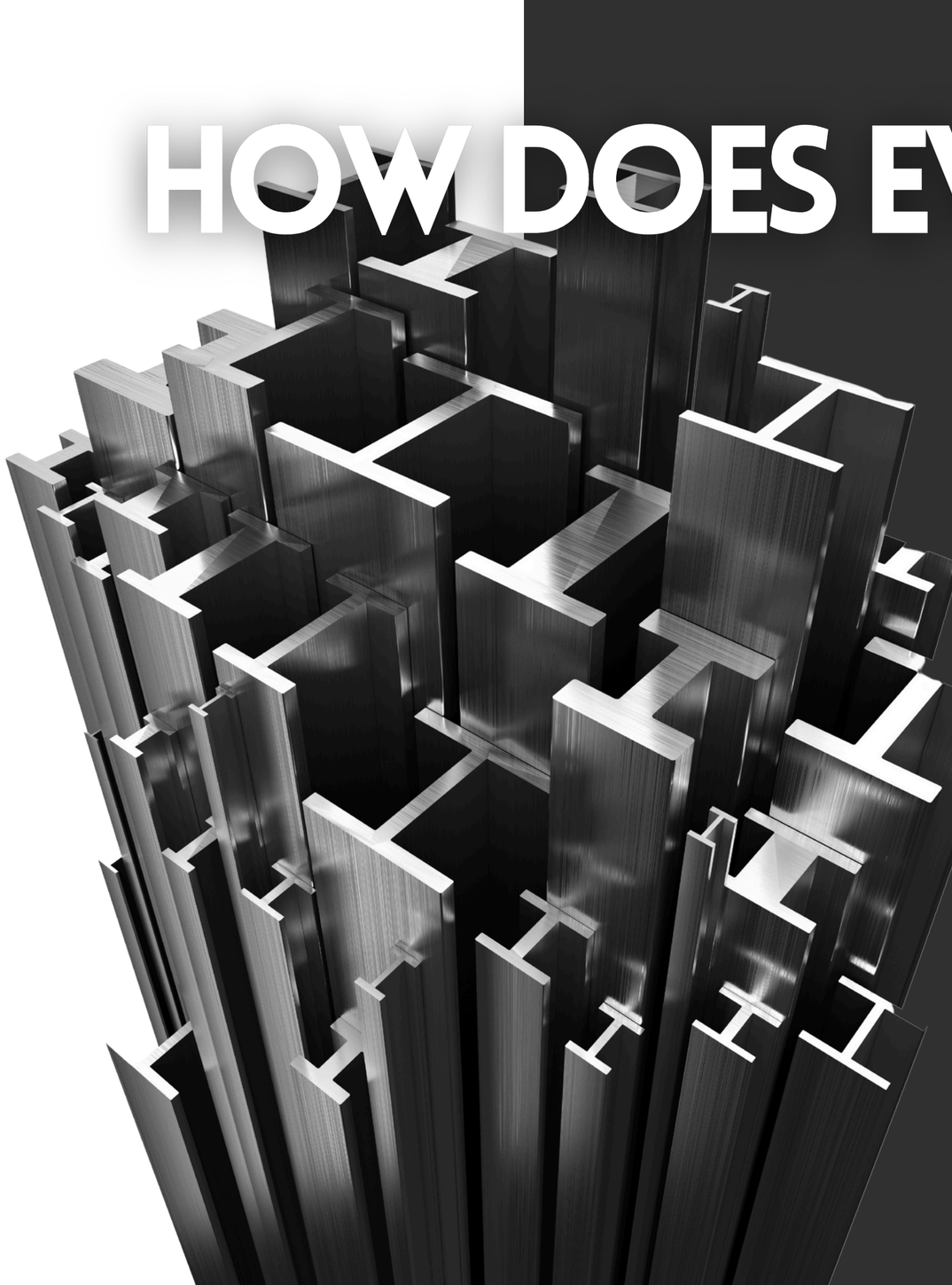
When this metal is subjected to pressure, heat, or impact, even when dipped in acid, seawater, or worn in space.its insides activate and make it stronger than before.

SELF-ADJUSTING

This metal can automatically change its atomic makeup to withstand certain stresses or heat - like having a “survival instinct.”



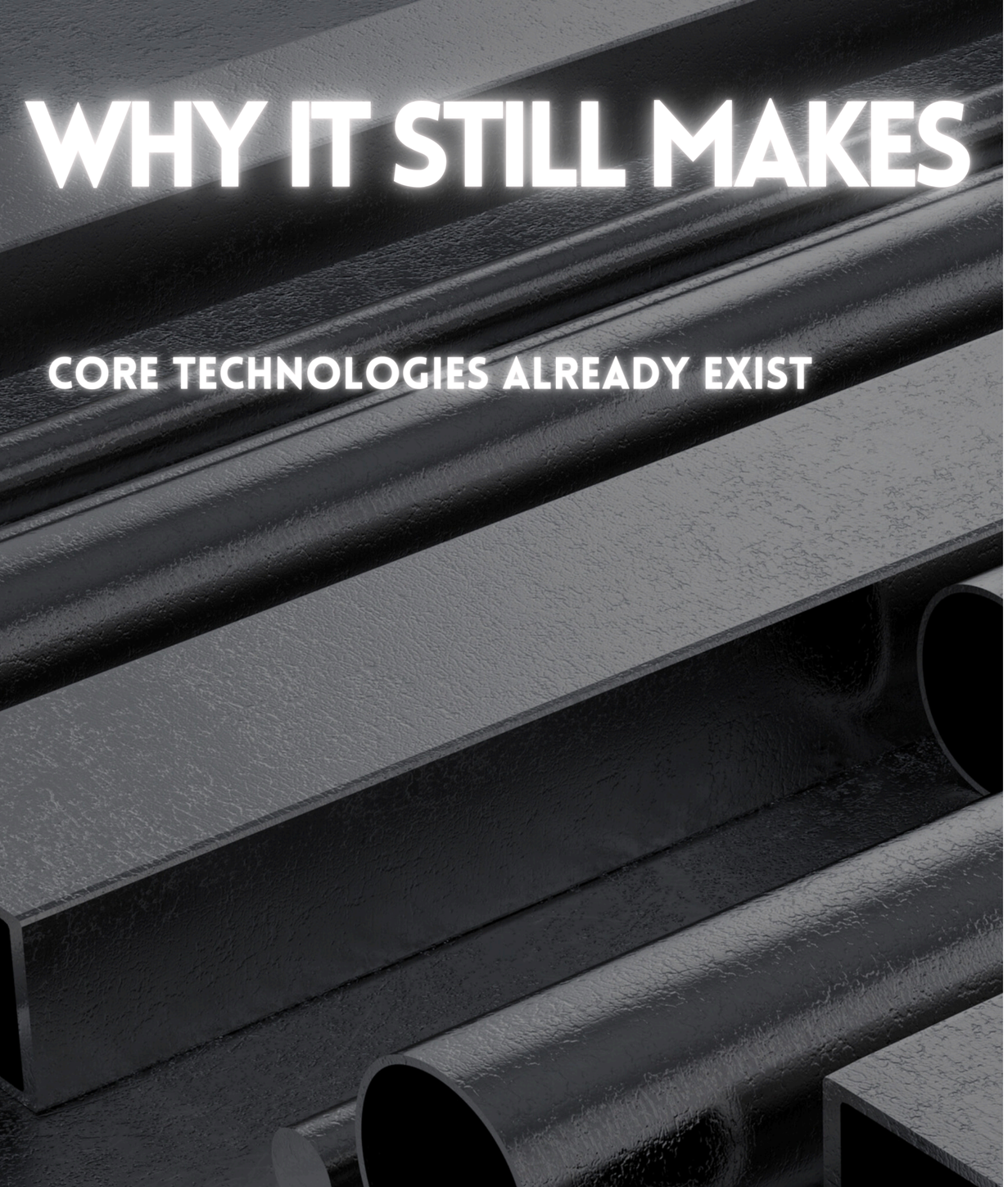
HOW DOES EVO STEEL WORK?



Technological Advancements that Transformed Industries

In Evo Steel, the molecules can move and change position on their own.
Think of it like a muscle: the more you use it, the stronger and more resilient it becomes.

Evo Steel has a special protective coating called dynamic passivation.
Unlike ordinary coatings, this coating can detect foreign substances such as acid or salt and automatically repair or reshape its own protective layer.



WHY IT STILL MAKES SCIENTIFIC SENSE?

CORE TECHNOLOGIES ALREADY EXIST

- **Nano-structured metals**
- **Self-healing materials**
- **Shape memory alloys**

CHALLENGES

- No metal can yet change atomic bonds actively.
- Needs meta-atomic engineering.

& THE ROAD AHEAD

- AI-based atomic simulations
- Tests with amorphous metals + nano self-assembly
- Cross-field teamwork: physics, chemistry, biomaterials

CONCLUSION
A FUTURE WITH EVO STEEL

IMAGINE A WORLD WITH NO RUST, NO CRACKS, NO MAINTENANCE.
EVO STEEL IS NOT JUST A MATERIAL – IT'S A LIVING METAL.