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A Computational Design Study of Self-healing Creep Resistant Steels

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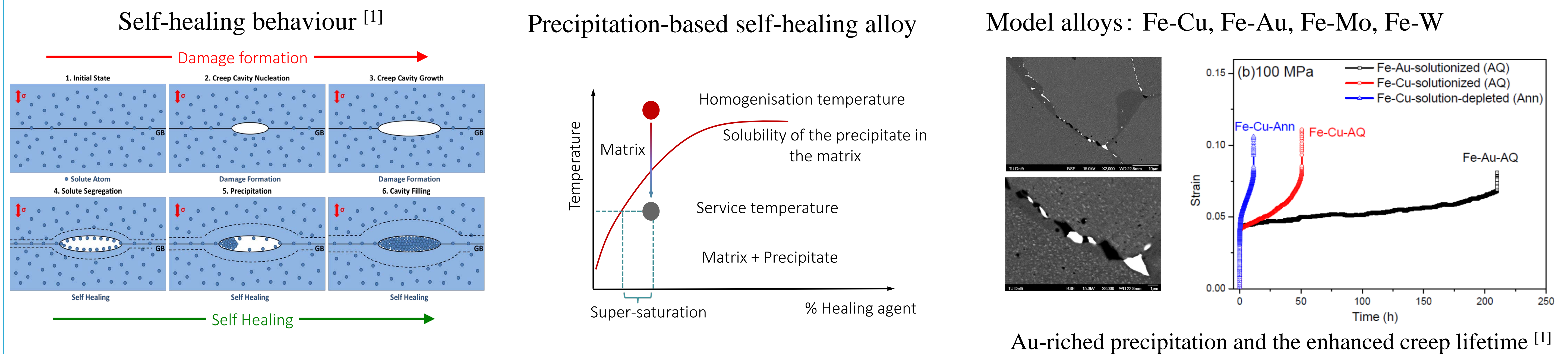
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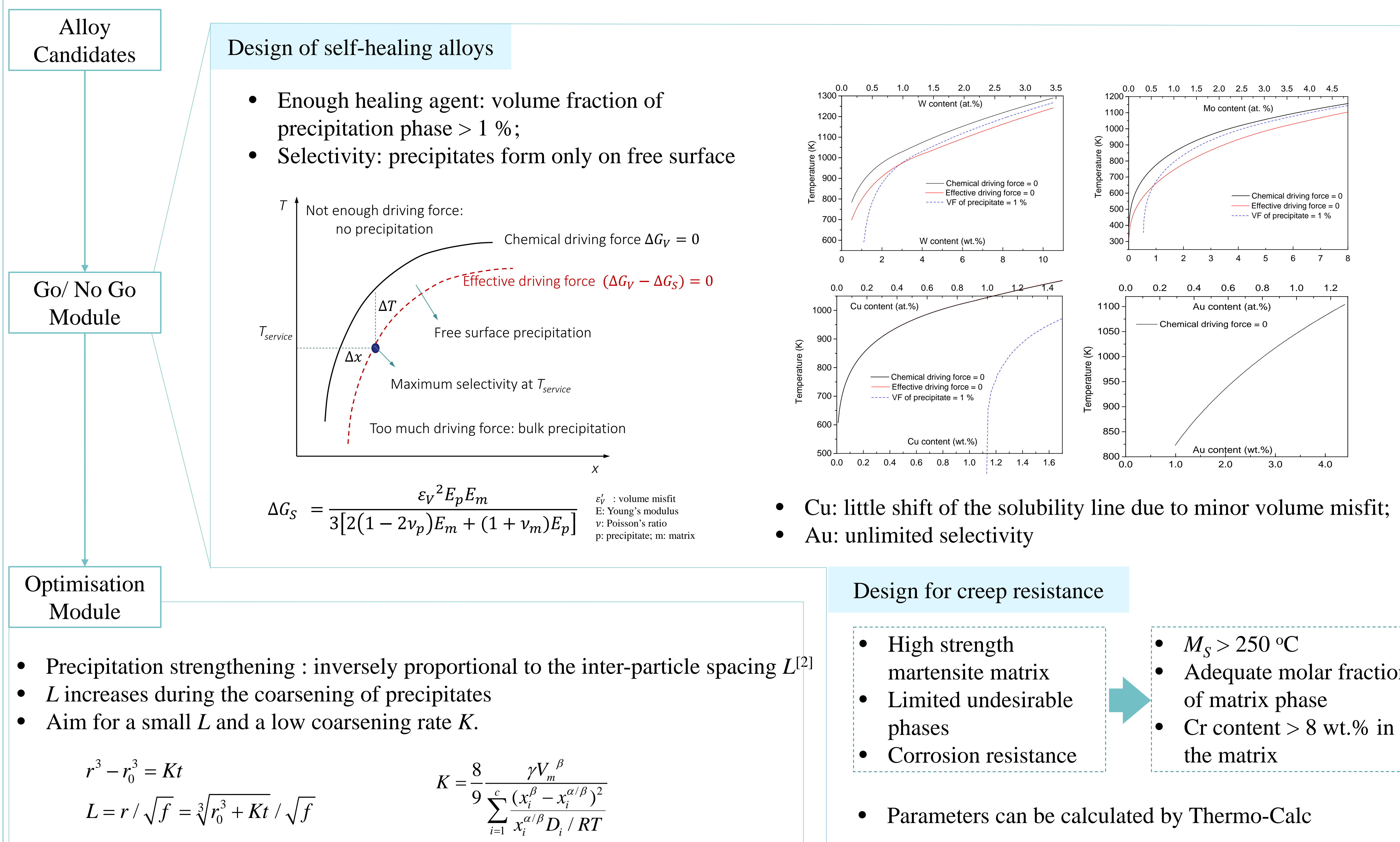
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Background



- Aim:** a multi-elemental, self-healable, creep resistant ferrous system with adequate mechanical properties for elevated temperature use.

Model Description



Future Work

- To determine the optimal composition for the first generation creep resistant steel with the self-healing capability;
- The study of the creep behaviour of the designed alloy; the research on the mechanism properties after the healing behaviour;
- Model development and optimisation: the change in the driving force for precipitation during the healing process.

References

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