

Materials: a game-changing catalyst

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2nd Munich Technology Conference

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Advances in AM Materials

oerlikon



*Smartechnology 2018: Additive Manufacturing with Metal Powders 2018

A short look back...

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1923



316L



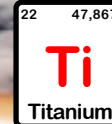
1959



Inconel 718



1954



Ti-6Al-4V

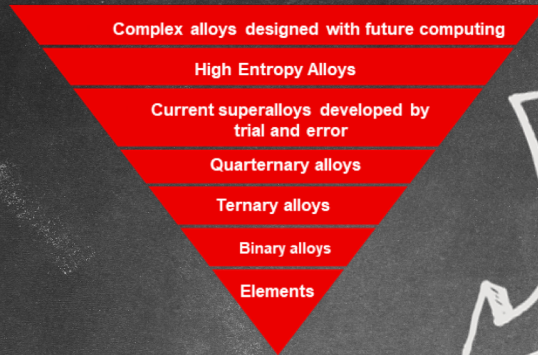


1988

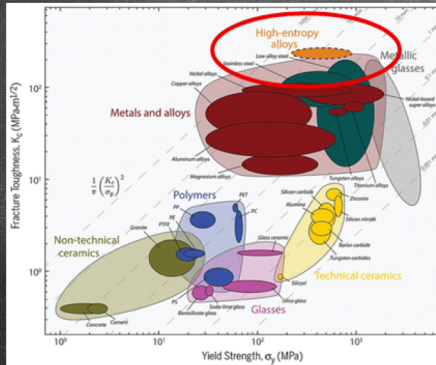
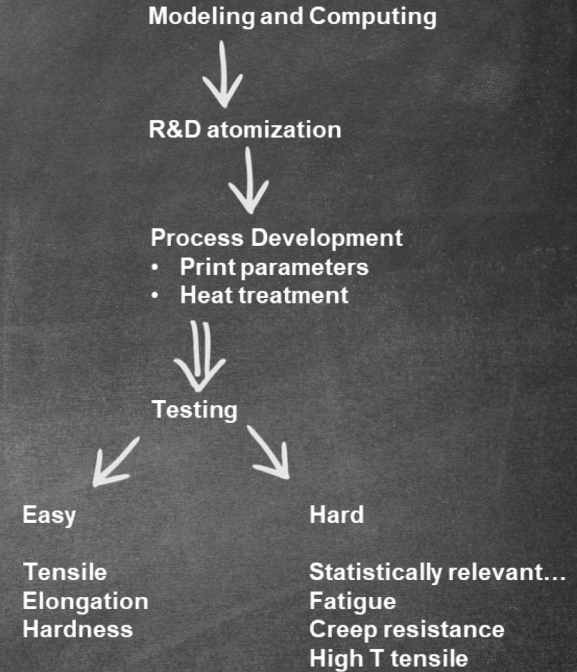


AlSi10Mg

Increasing Complexity



Materials Testing



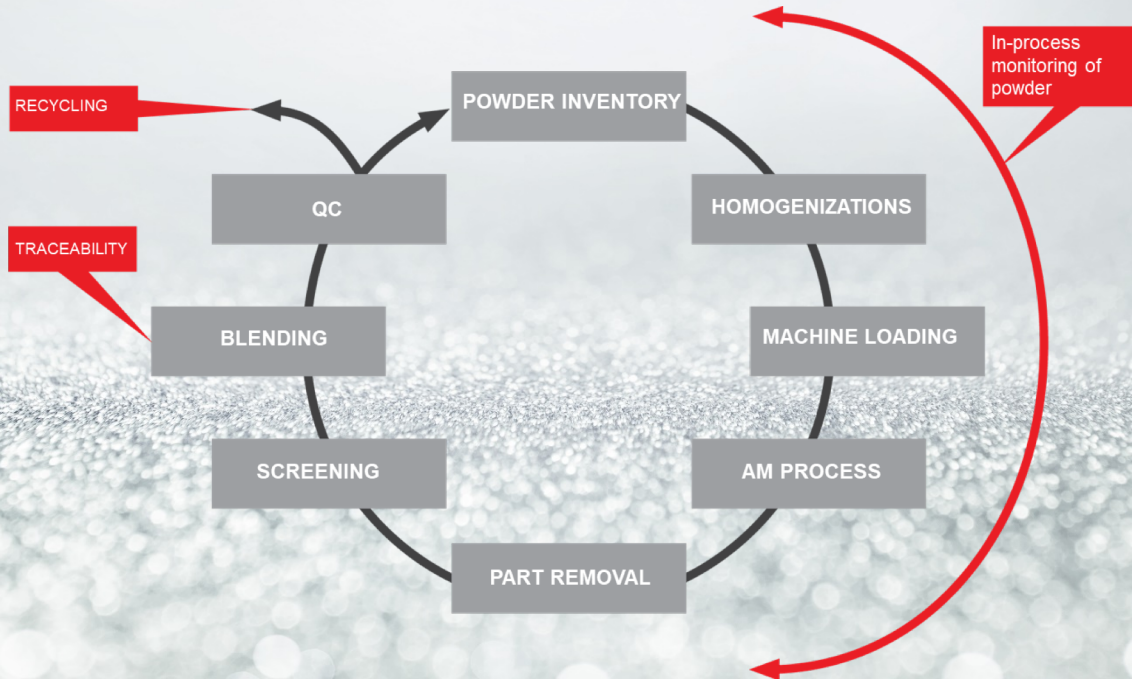
Material Lifecycle Management



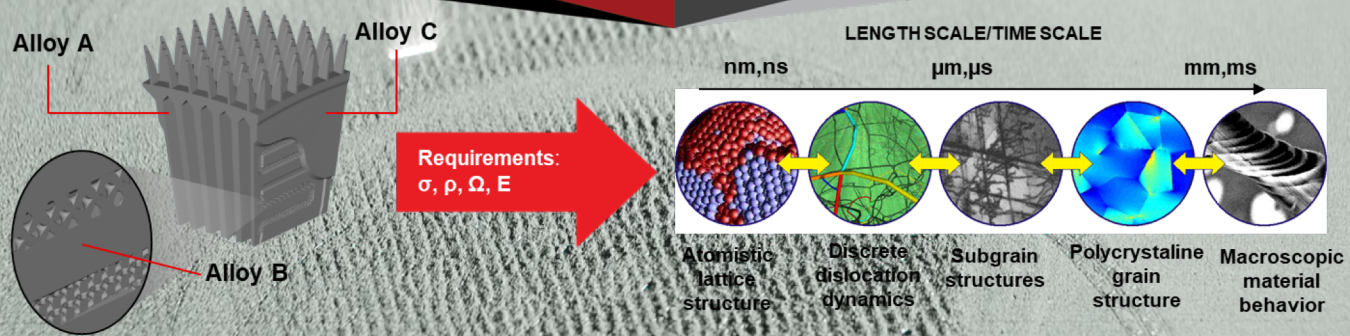
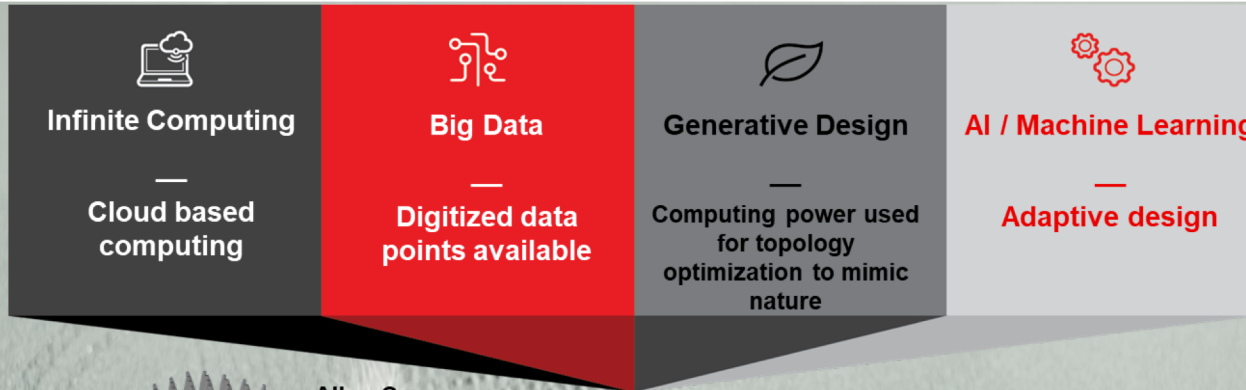
Process Robustness



Yield



Alloy Development... in the future



Functionally graded alloying and microstructures could be possible for parts

The Future of AM...

Materials Design

Big Data and
Computing



Topology
Optimization

AI

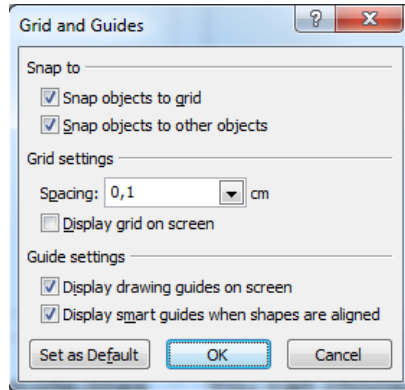


Thank you.



Explanation slide

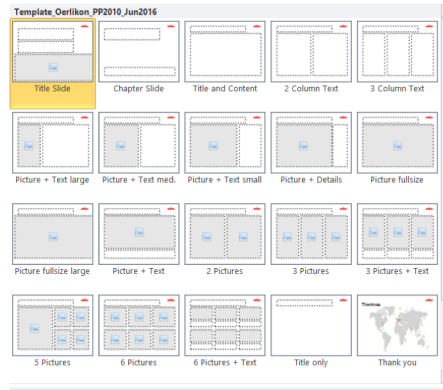
- Please read the following explanations



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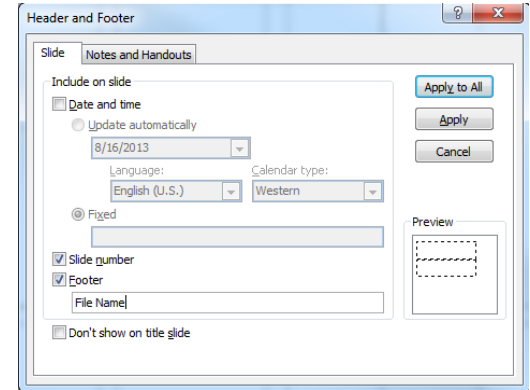


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