

Materials Genome Initiative and National Data Services

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NDS Workshop

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Materials Genome Initiative

Announced in June 2011 by President Obama with a goal to

“discover, develop, manufacture, and deploy advanced materials at least twice as fast as possible today, at a fraction of the cost.”

- Materials Genome Initiative for Global Competitiveness, Whitepaper, June 2011

2x as fast for 1/2x the cost

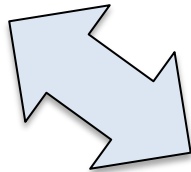
MGI Essence



Materials Innovation Infrastructure

Materials Infrastructure of the Future?

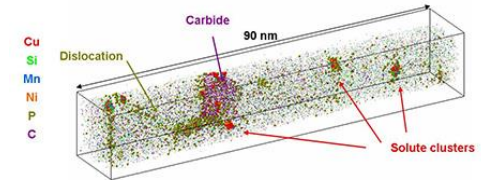
Onsite/Remote users



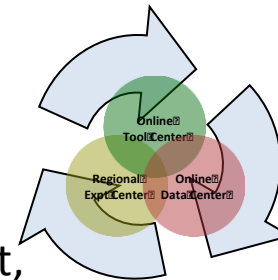
- Greater access
- Reduced costs
- Increased efficiency
- Accelerated science
- Online education/training
- Flexibility

Data

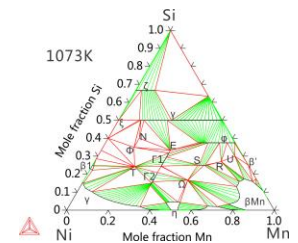
Accessible, discoverable,
sustainable, ...



Experimental tools
Networked Equipment,
wired staff



Software
Analysis, simulation,
web apps ...



Hardware
Computing, networks,
storage, ...

