





# HPC4EI: National Laboratories Partner with U.S. Manufacturers to Increase Innovation and Energy Efficiency

Aaron Fisher
Acting HPC4El Director

Michelle Herawi

**HPC4EI Program Administrator** 

Ashley Mata

**HPC4EI** Administrative Assistant

Lawrence Livermore National Laboratory is operated by Lawrence Livermore National Security, LLC, for the U.S. Department of Energy, National Nuclear Security Administration under Contract DE-AC52-07NA27344 LLNL-PRES-852034



Energy Efficiency & Renewable Energy



Fossil Energy and Carbon Management





























#### U.S. industry is undergoing a technological revolution





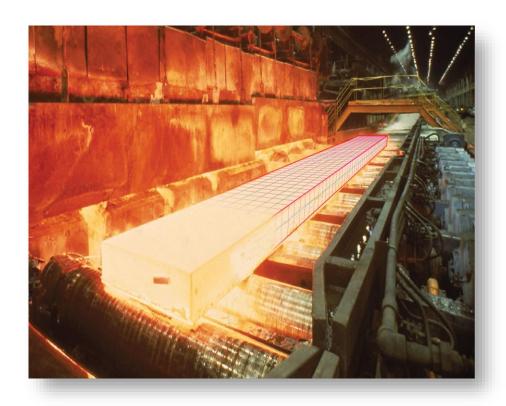


## We are advancing the energy agenda through advanced simulation



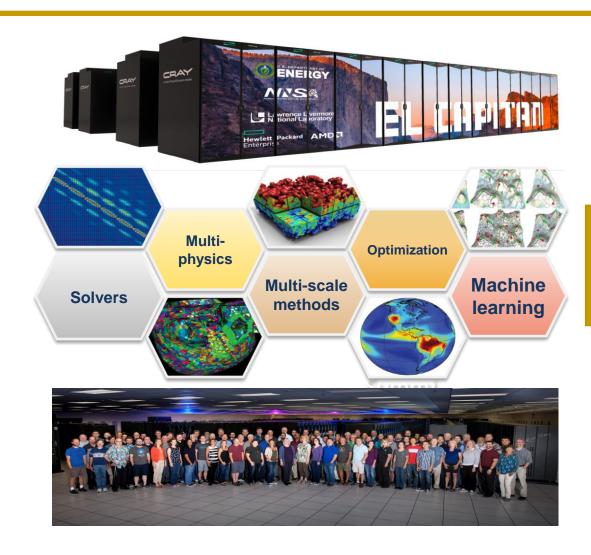




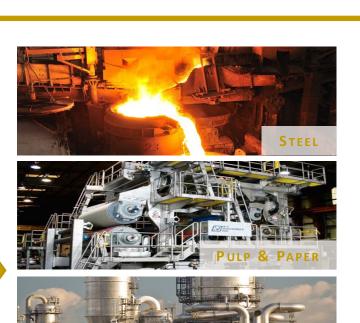




#### HPC4EI connects the DOE HPC ecosystem to US industry



World-class supercomputers
Unique software
Subject Matter Experts





### Program Approach Companies apply to pr



#### Companies apply to program through a solicitation process



- DOE funds 2 solicitations a year
- \$400K / Project funded
- ~\$7M /yr Budget
- 11 National laboratories participating
- 150+ projects funded with 90+ companies over 7 years





#### Over 150 projects have been funded with over 90 manufacturers in US























































































- Legacy industries
- Innovative small companies