

**SMI JKMRRC**

Julius Kruttschnitt Mineral  
Research Centre

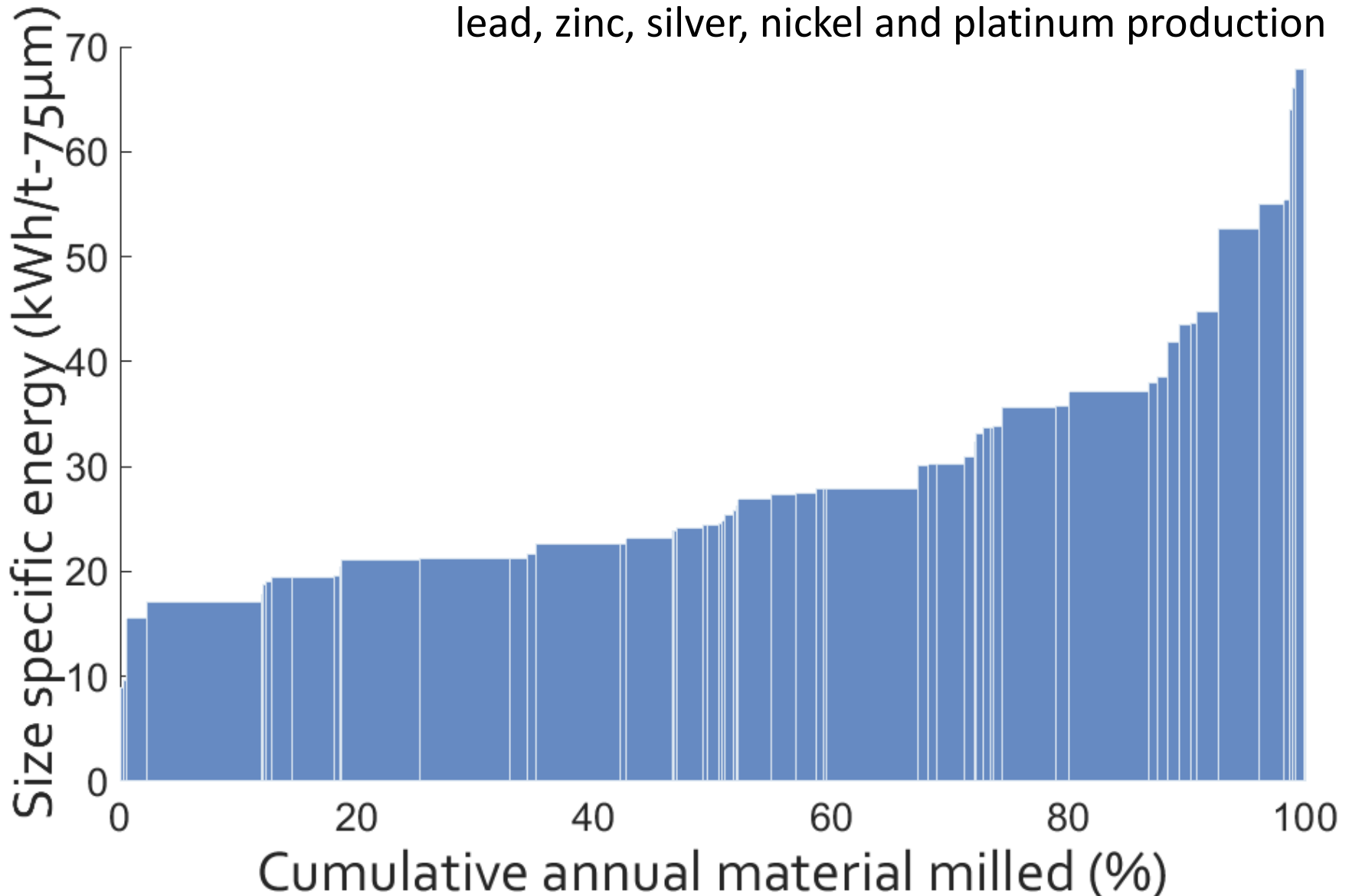


# Geometallurgy and Energy (determining primary rock properties)

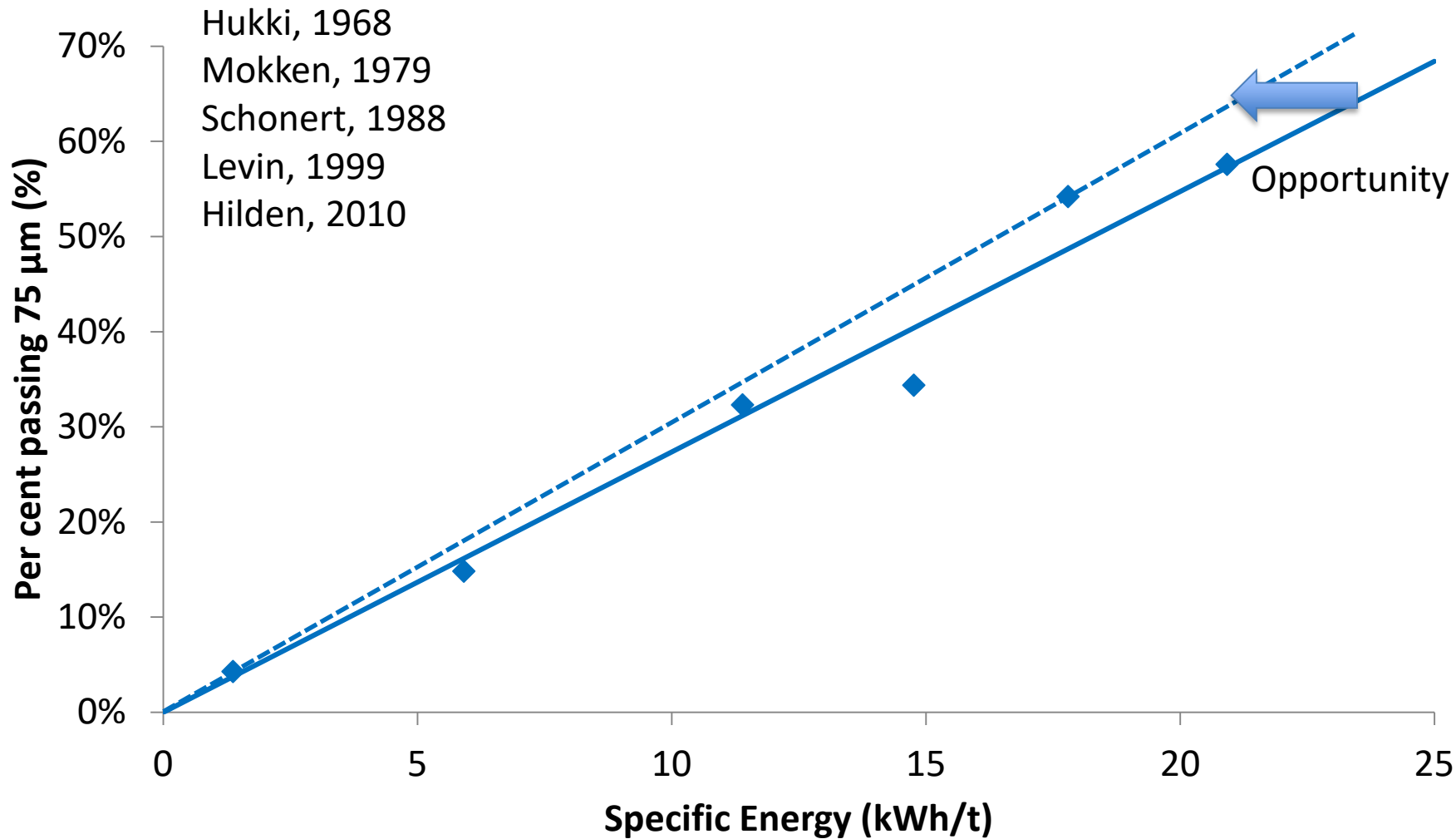
Grant Ballantyne and Ben Bonfils

# Energy Curves\*

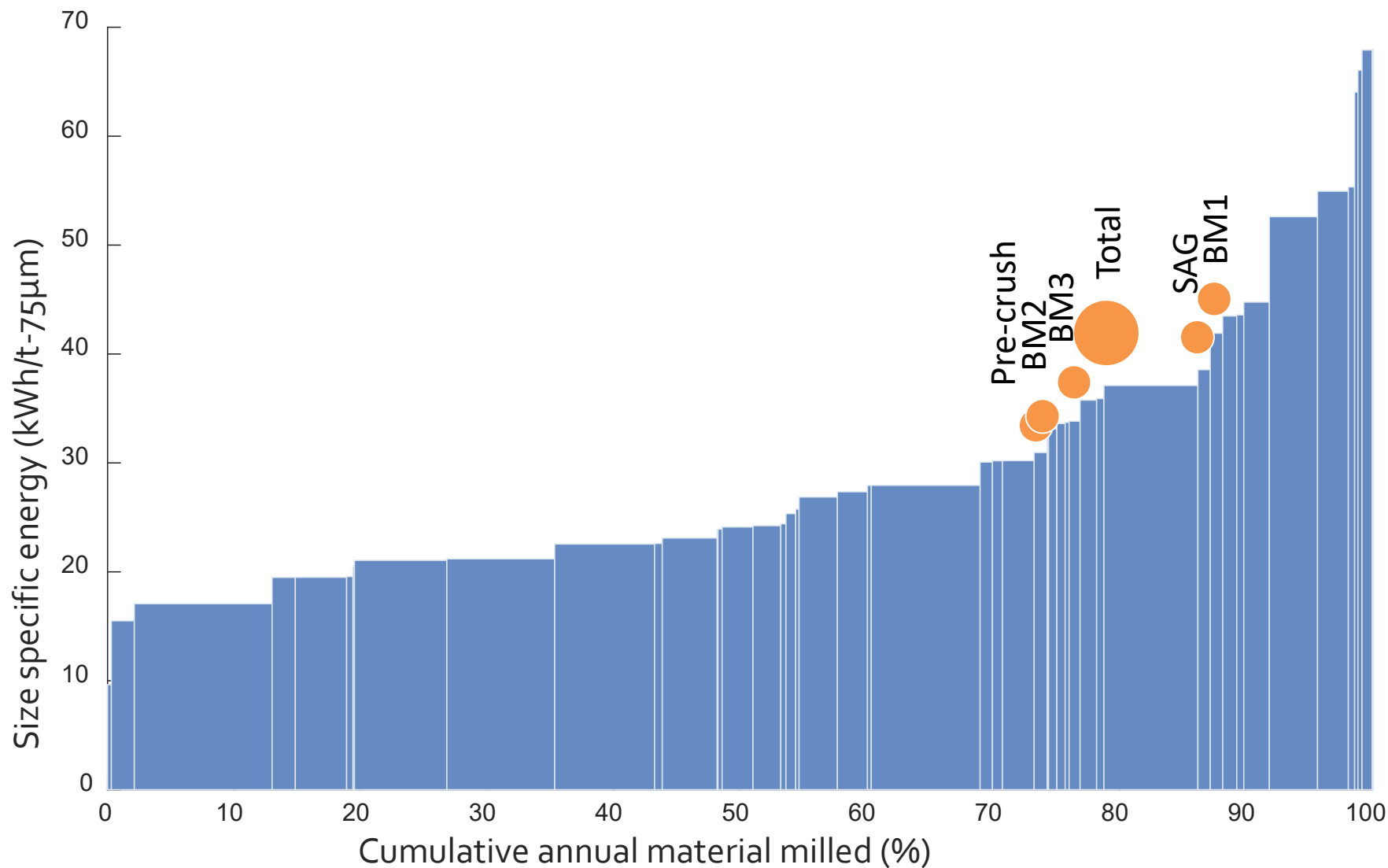
\*40% of the material milled in global gold, copper, lead, zinc, silver, nickel and platinum production



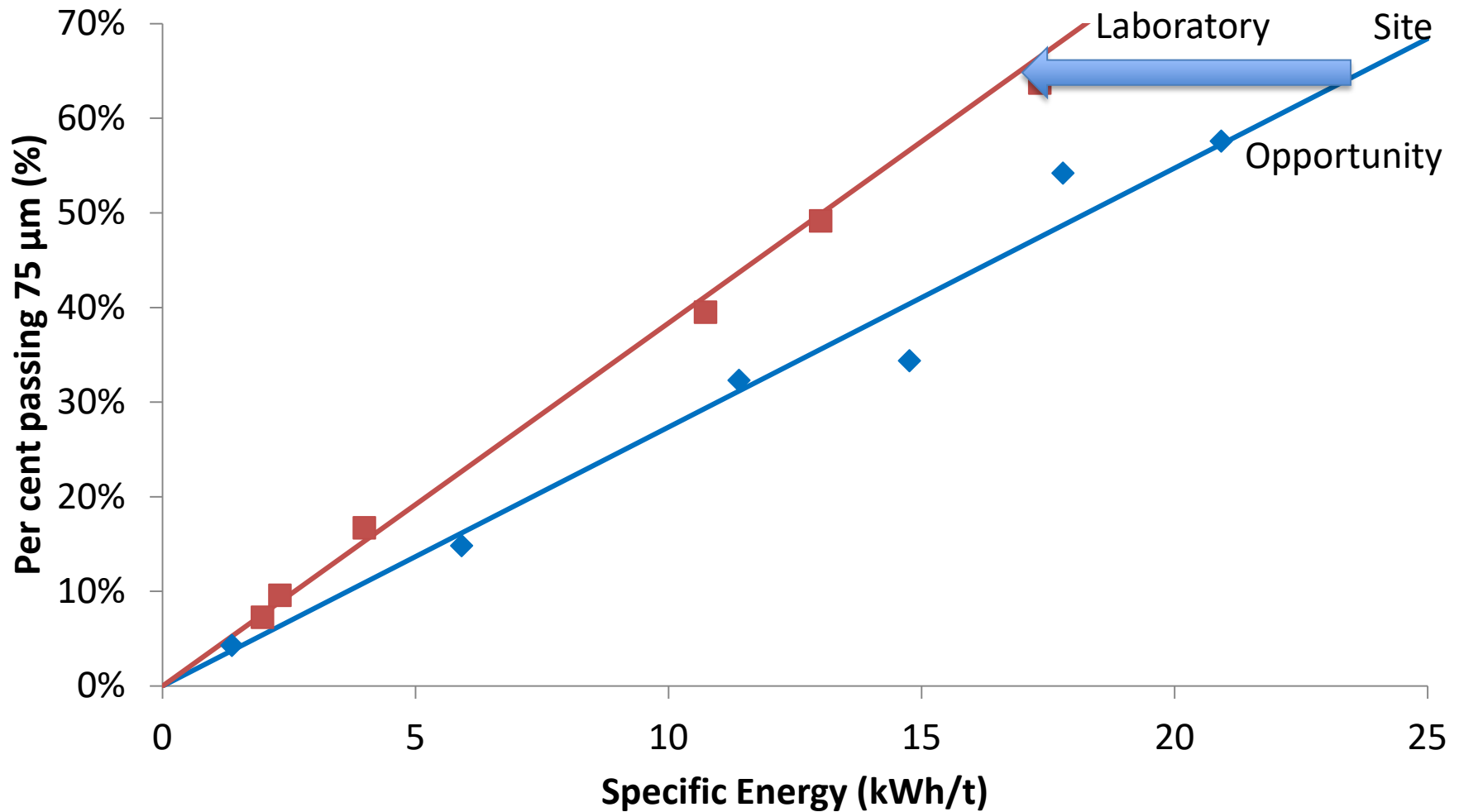
# Size Specific Energy – on-site tool



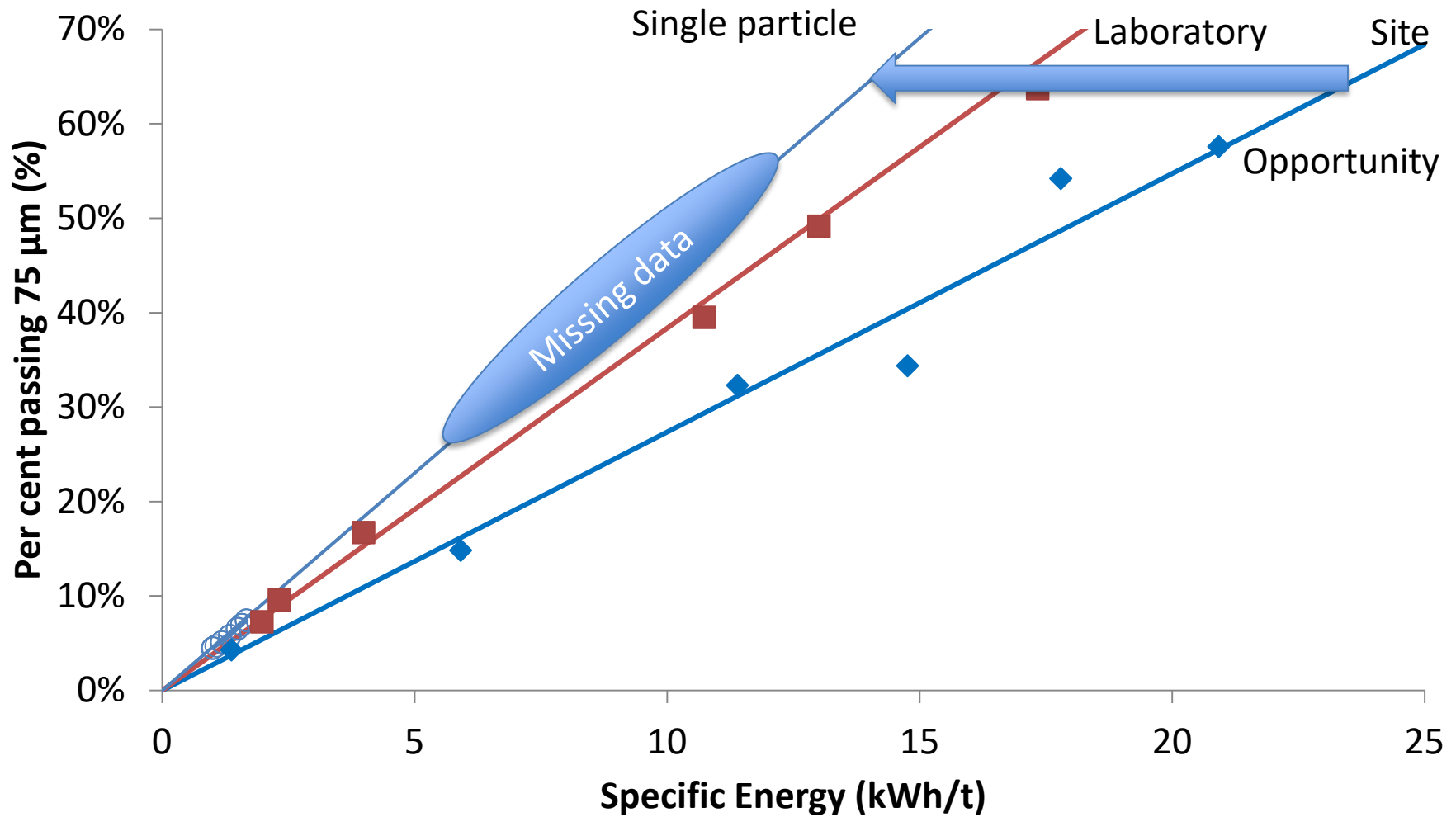
# SSE Energy Curve



# Size Specific Energy – ore body characterisation



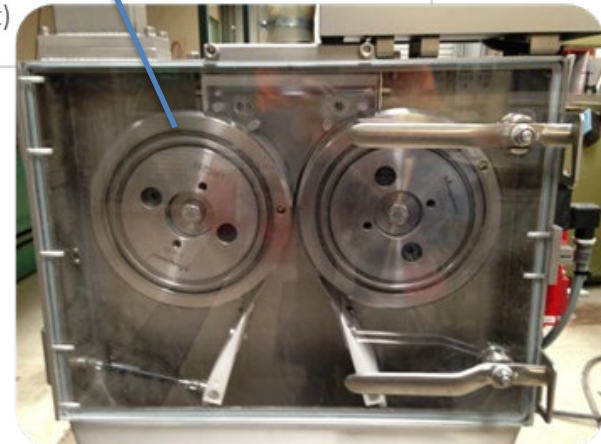
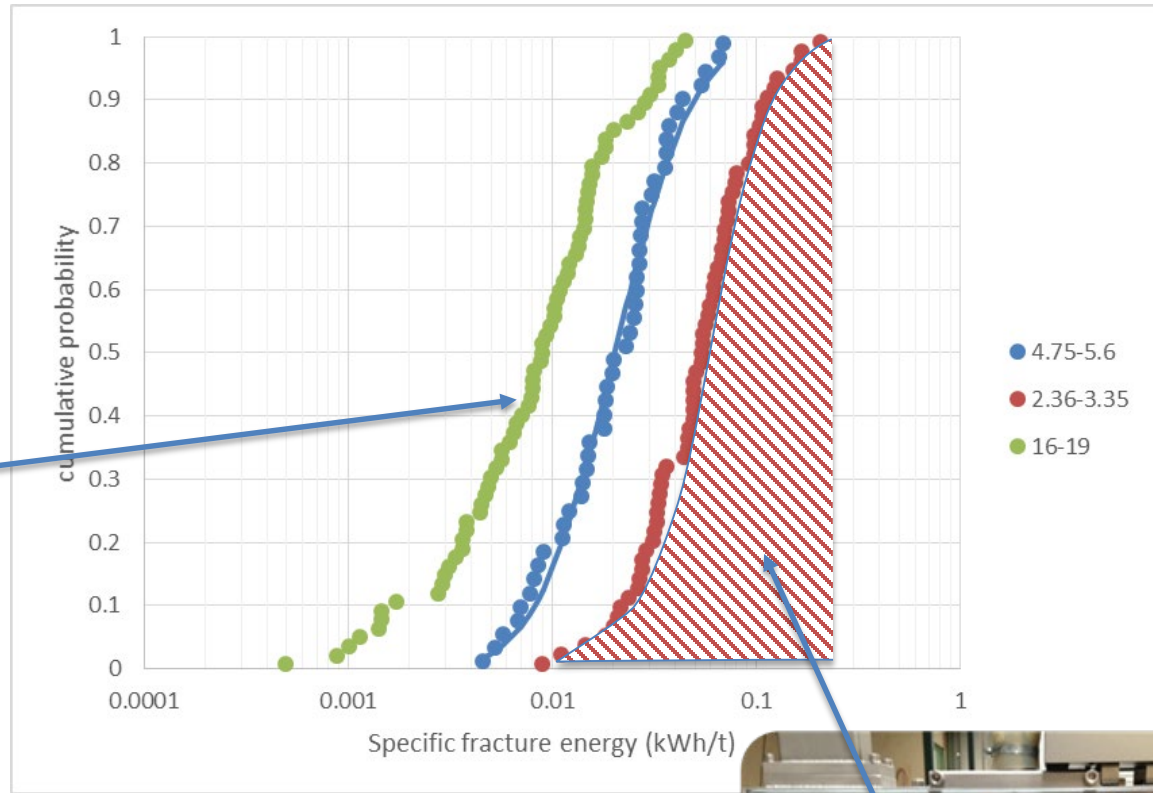
# Size Specific Energy – ore body characterisation



# Instrumented rolls



# SILC and Energy Index





# New comminution modelling

