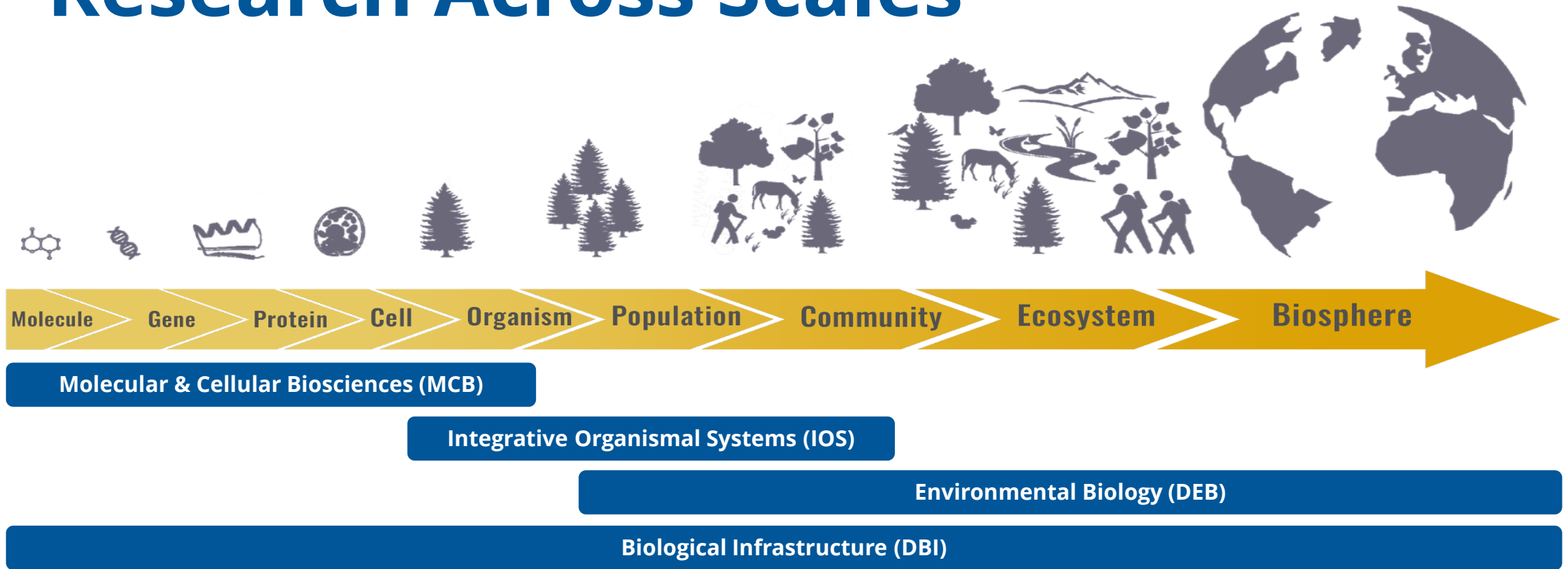




Research at Multiple Scales: A Vision for Continental Scale Biology

Matt Kane
Division of Environmental Biology
U.S. National Science Foundation (NSF)

How the NSF BIO Divisions Support Research Across Scales



THINK BOLDLY ABOUT...

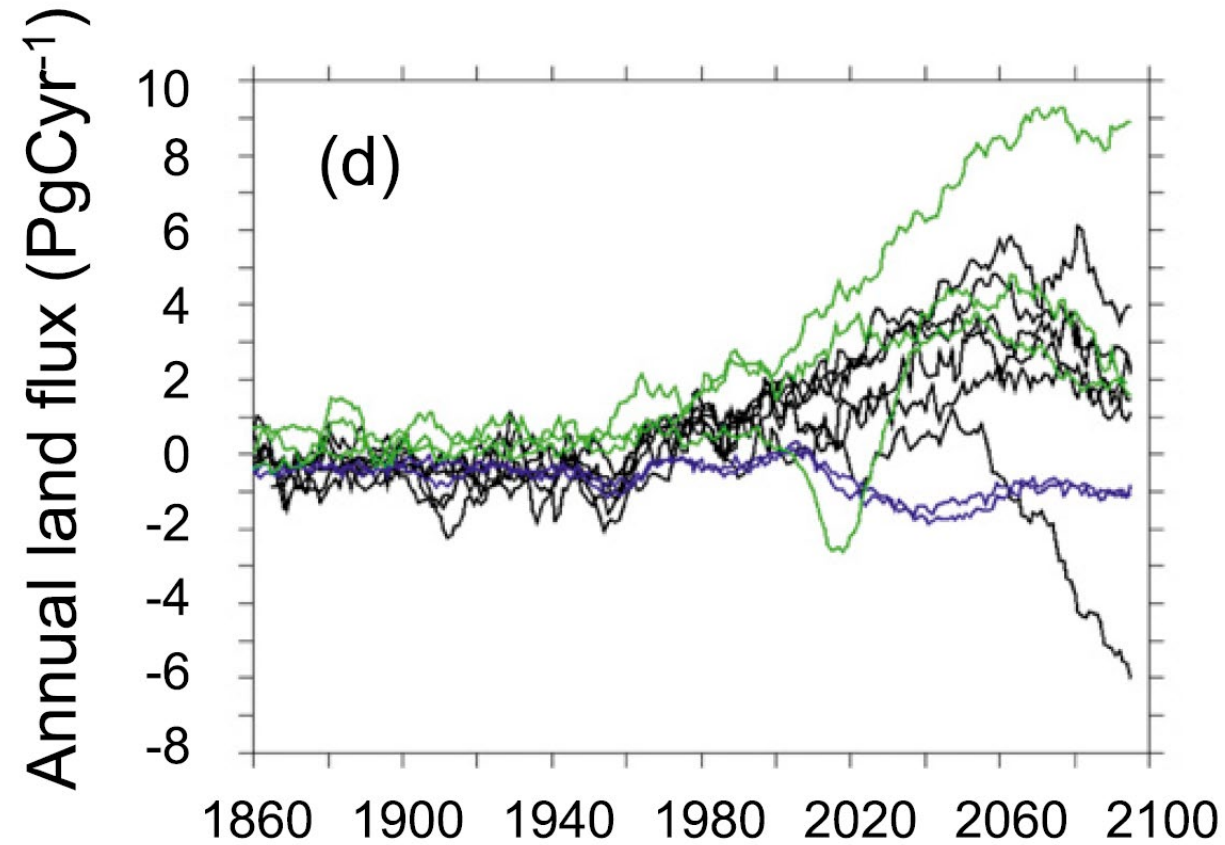
IDEAS – WHERE ARE THE NEXT FRONTIERS?

TOOLS – WHAT ARE THE NEXT BIG THINGS?

PEOPLE– HOW DO WE MAKE CONTINENTAL SCALE BIOLOGY
EQUITABLE, INCLUSIVE AND RELEVANT TO SOCIETY?



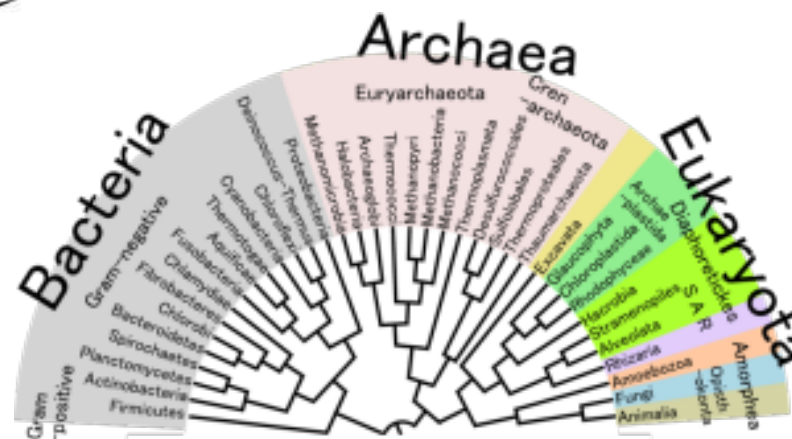
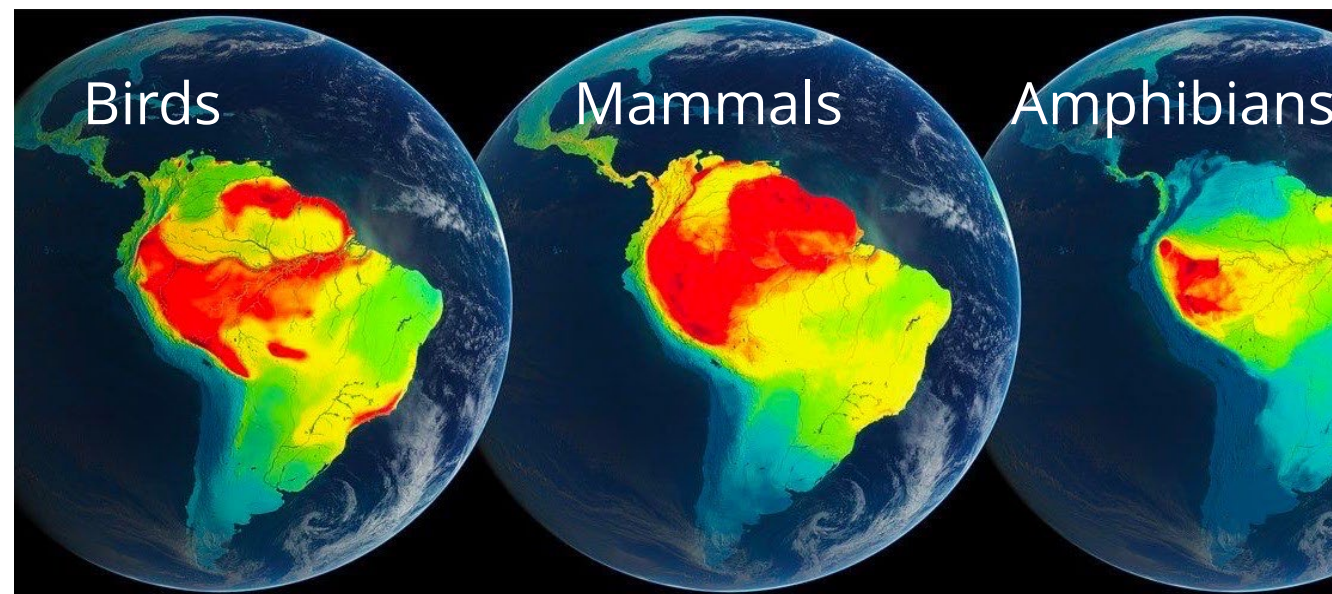
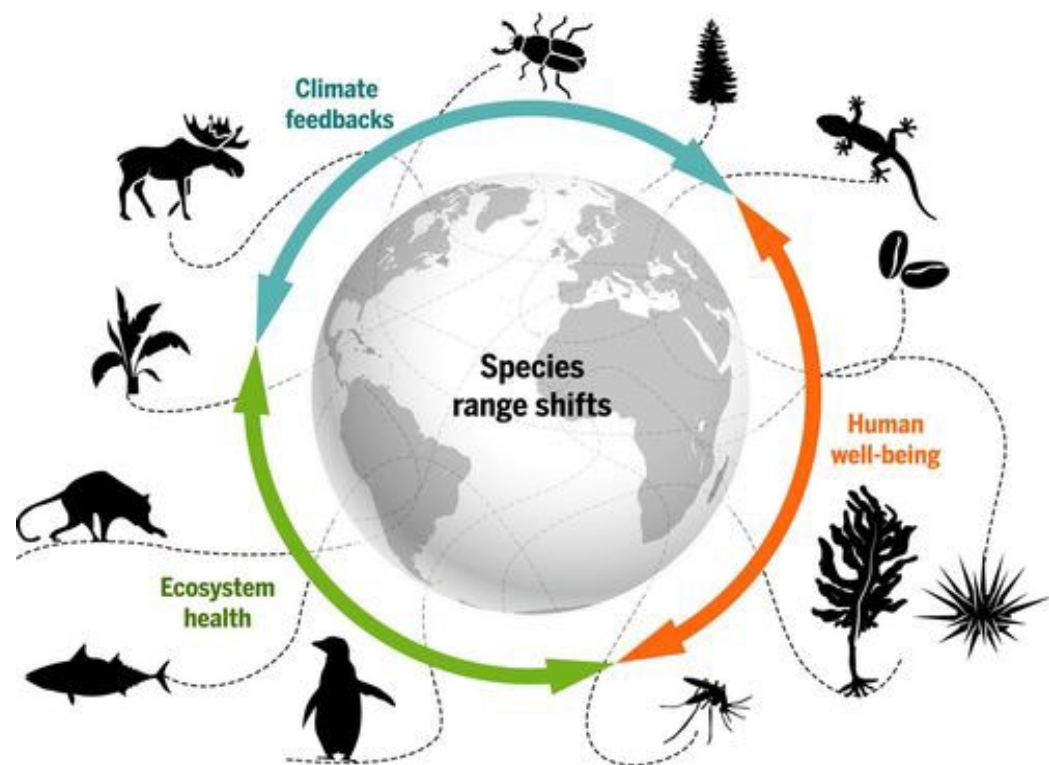
WHERE IS ALL OF THE CO₂ GOING TO GO???



THINK BOLDLY...

IDEAS – WHERE ARE THE NEXT FRONTIERS?

WHAT IS THE FUTURE OF EARTH'S BIODIVERSITY ???



THINK BOLDLY...

TOOLS – WHAT ARE THE NEXT BIG THINGS?

HOW CAN INFRASTRUCTURE & OPEN DATA BE LEVERAGED?



THINK BOLDLY...

TOOLS – WHERE ARE THE NEXT BIG THINGS?

HOW CAN ML, AI AND CLOUD COMPUTING HELP?



THINK BOLDLY...

PEOPLE – HOW DO WE MAKE CONTINENTAL SCALE BIOLOGY EQUITABLE, INCLUSIVE AND RELEVANT TO SOCIETY?

Environmental Data Science Innovation and Inclusion Lab





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