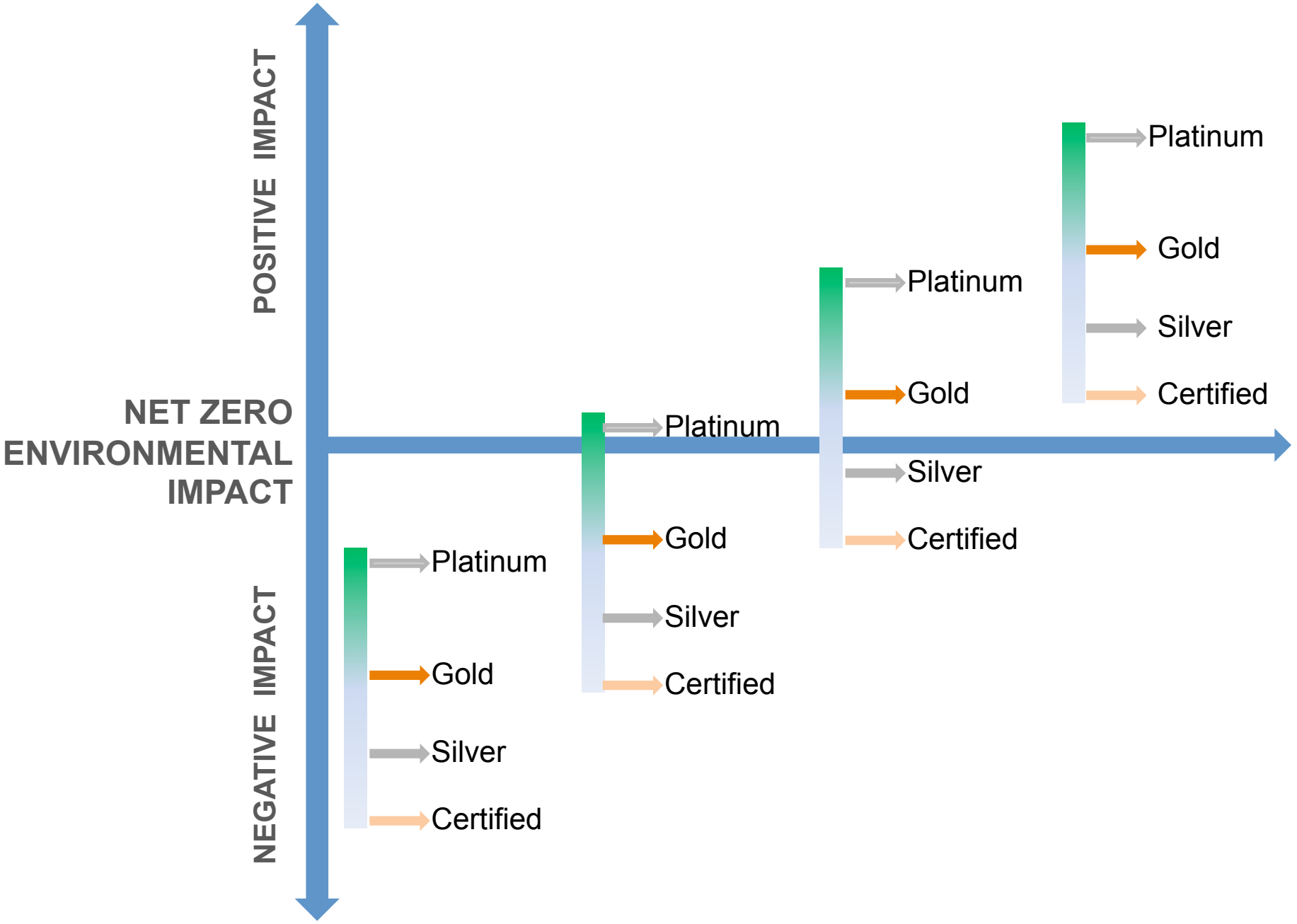
LEED FOR HOMES

Where are we heading?

Southern Living Idea Home
Photo by Rob Moody


POSITIVE IMPACT
NET ZERO ENVIRONMENTAL IMPACT
NEGATIVE IMPACT
Platinum
Gold
Silver
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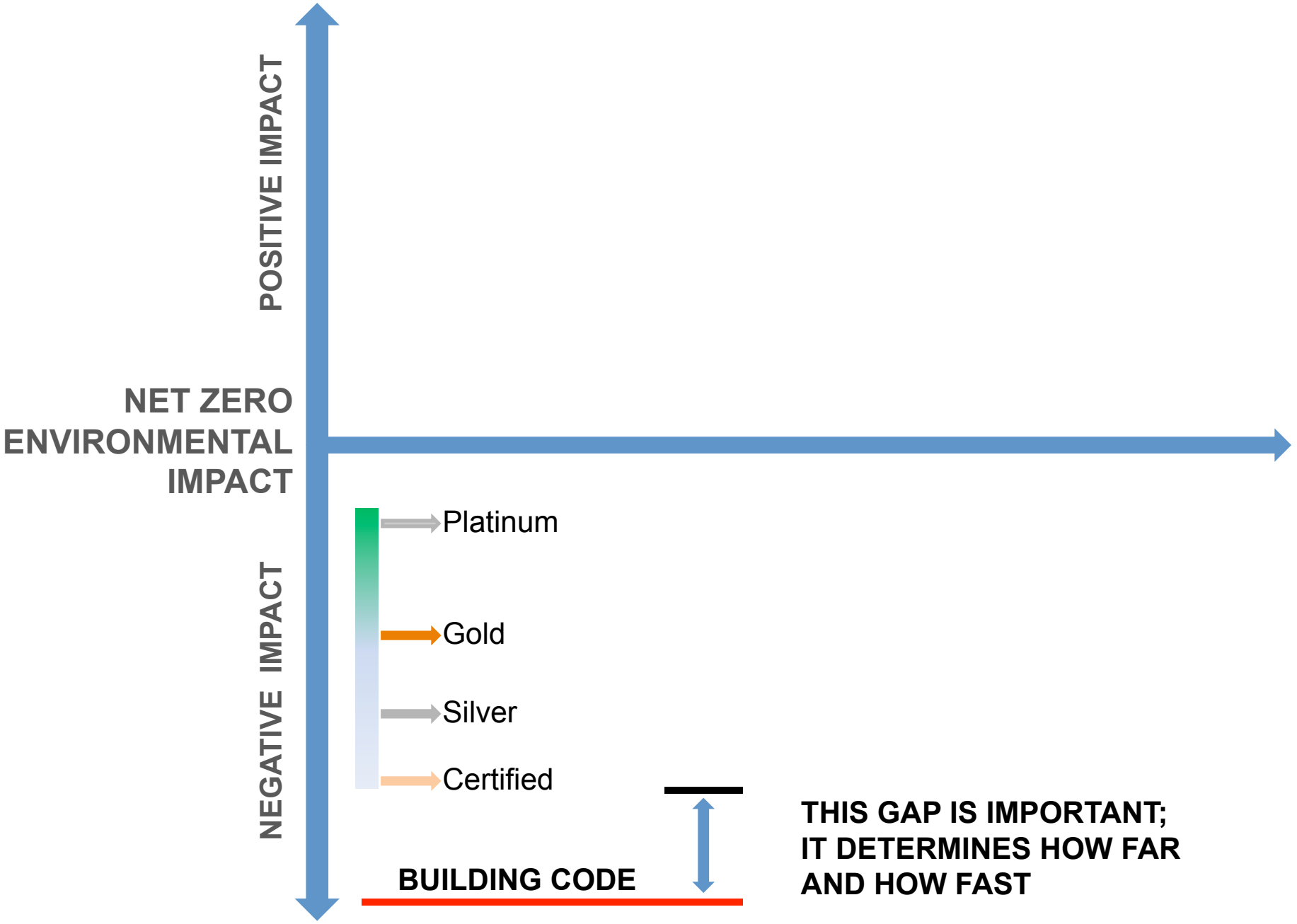
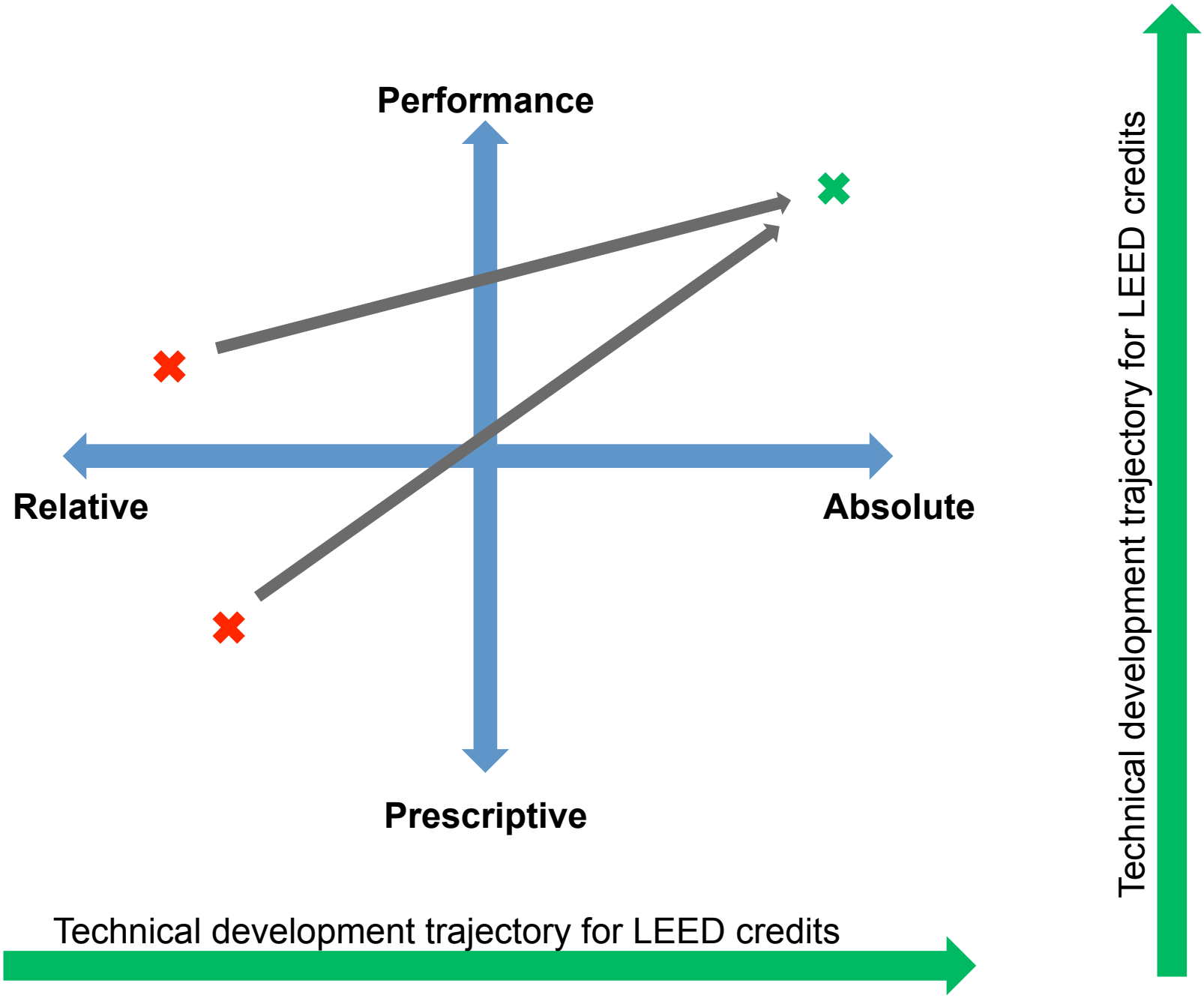

POSITIVE IMPACT
NET ZERO ENVIRONMENTAL IMPACT
NEGATIVE IMPACT
Platinum
Gold
Silver
Certified
BUILDING CODE
THIS GAP IS IMPORTANT; IT DETERMINES HOW FAR AND HOW FAST


Performance
Relative
Absolute
Prescriptive
Technical development trajectory for LEED credits
Technical development trajectory for LEED credits

Impact Categories and Weightings

- Revised impact categories more closely reflect USGBC's values and mission
- The point allocation process developed LEED 2009 has been used

Impact Categories and Weightings

What do we want LEED projects to accomplish?

- Reverse Contribution to Global Climate Change
- Enhance Human Health, Wellbeing, and Vitality
- Protect and Restore Water Resources
- Protect, Restore, and Enhance Biodiversity and Ecosystem Services
- Conserve and Renew Natural Resources
- Build a Greener Economy
- Enhance Community: Social Equity, Environmental Justice, and Quality of Life

Impact Categories and Weightings

- Not just about site energy use
- Indoor air quality is paramount
- As site energy use lowers, relative importance of location (vmt), water consumption, and material life cycle impact increase

WHERE ARE WE HEADED?

- Traditional building certification will be considered “pre-certification”
- Continuing certification will be given based on actual performance of building

2012 - Location and Energy

- Combined point floor requires projects to achieve 15% of combined Location & Transportation and Energy & Atmosphere points
- Explicit tie that location and energy is linked via common metrics (cost and carbon)

2012 - Energy Budget

- Each project gets a specified number of Mbtus per year based on # of bedrooms, climate
- Energy Budget is based on modified version of E*v3 Reference Home
  - Made as many items as static as possible that in E*v3 were the same as the designed homes
- Incorporates major energy loads not included in HERS (pools, heated driveways, etc)

ENERGY BUDGET – WHY?

- HERS Index - Came out of code compliance world – so it must be neutral on home size and design decisions - which is why it's a % improvement over a code
- Reward design decisions, not just component efficiencies
- Avoid HERS Home Size Bias
  (HERS 80 for 50% smaller; 74 for 50% larger than Reference Home)
- Shift thinking from energy savings to actual energy usage. Transition from the theoretical (% improvement) to the tangible ($ spent, BTUs used)
- Easier way to represent projects that achieve NZEH


U.S. GREEN BUILDING COUNCIL
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