Global visions: From planetary boundaries to national contours

Jessica Jewell & Joeri Rogelj
Research Scholars, Energy Program
29 April 2015
Exploring deep uncertainty
Exploring deep uncertainty

Source: Rogelj et al., Nature Clim. Ch., 2012
Exploring deep uncertainty

Source: Rogelj et al., Nature Clim. Ch., 2012
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

2°C

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring deep uncertainty

Source: Rogelj et al., Nature, 2013
Exploring political drivers
Exploring political drivers – energy independence

“…[we face] grave energy security challenges [from] dependence on foreign energy.”
– China’s 2012 energy policy

“…seize the promise of energy independence”
– speech 2009

“…need to be independent when it comes to providing our people with energy.”
– speech 2015
increasing energy independence

increasing climate protection

- Energy independence
- Pledges
- 2°C

Jewell et al. forthcoming