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| GM7  Intensified global competition for resources | |
| Drivers | **Trends** |
| Population trends including structural demographic changes  Economic growth  Consumption patterns  Structural economic change  Technological innovation  International cooperation  Increased resource extraction  Resource competition  Urbanisation  Market incentives  Global progress in environmental agreements | **Growing global demand**  **Changing resource demand at different stages of economic development**  -Resource use  -Consumption of base metals and steel  -Consumption of energy resources  -Changing resource demand for developing countries  -adoption by developing countries of western production/consumption systems  **Increasing resource use despite some decoupling from economic growth**  -global resource extraction  -extraction of new sources of traditional resources  -material intensity  -projections of resource use  -resource efficiency  Uncertain resource supply, and resources concentrated in certain countries/ regions  **Risk of scarcity but innovation in extraction technologies**  -Fossil fuel reserves  -Fossil fuel prices  -investment in renewable energy  -number of years that proved reserves would last at current consumption rates  **Commodity price developments**  -price of major resource categories  **Uncertain access to critical resources**  -global production of the EU’s 20 critical raw materials list  -demand for critical resources |

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| GM9  Increasingly severe consequence of climate change | |
| Drivers | **Trends** |
| Population trends  Natural climate variability  -changes in solar irradiance  Anthropogenic causes  -Fossil fuel combustion  -Deforestation  -agriculture  -waste management  -aerosol emissions  Economic growth  -Industrialisation of economies  Technological innovation  -change in scale and type of agriculture  International cooperation  Consumption patterns  -Global energy demand | **Observed climate changes**  -Land and ocean surface temperature  -Changes in extreme temperatures  -extreme weather events  -Inter-annual natural climate variability  -Decadal natural climate variability  -Ice and snow cover changes  -increase in permafrost temperatures  -precipitation changes  -sea level rise  **Increase in methane releases and positive climate feedback mechanisms**  **Projected temperature**  **Projected precipitation**  **Projected ocean changes**  -temperature  -circulation  **Projected cryosphere changes**  -ice cover  -snow cover  -extent of permafrost  **Projected sea level changes** |