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| GM7Intensified global competition for resources |
| Drivers | **Trends** |
| Population trends including structural demographic changesEconomic growthConsumption patternsStructural economic changeTechnological innovationInternational cooperationIncreased resource extractionResource competitionUrbanisationMarket incentivesGlobal 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 efficiencyUncertain 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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| GM9Increasingly severe consequence of climate change |
| Drivers | **Trends** |
| Population trendsNatural climate variability-changes in solar irradianceAnthropogenic causes-Fossil fuel combustion-Deforestation-agriculture-waste management-aerosol emissionsEconomic growth-Industrialisation of economiesTechnological innovation-change in scale and type of agricultureInternational 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** |