



What next for the global steel industry in a post Covid-19 world?

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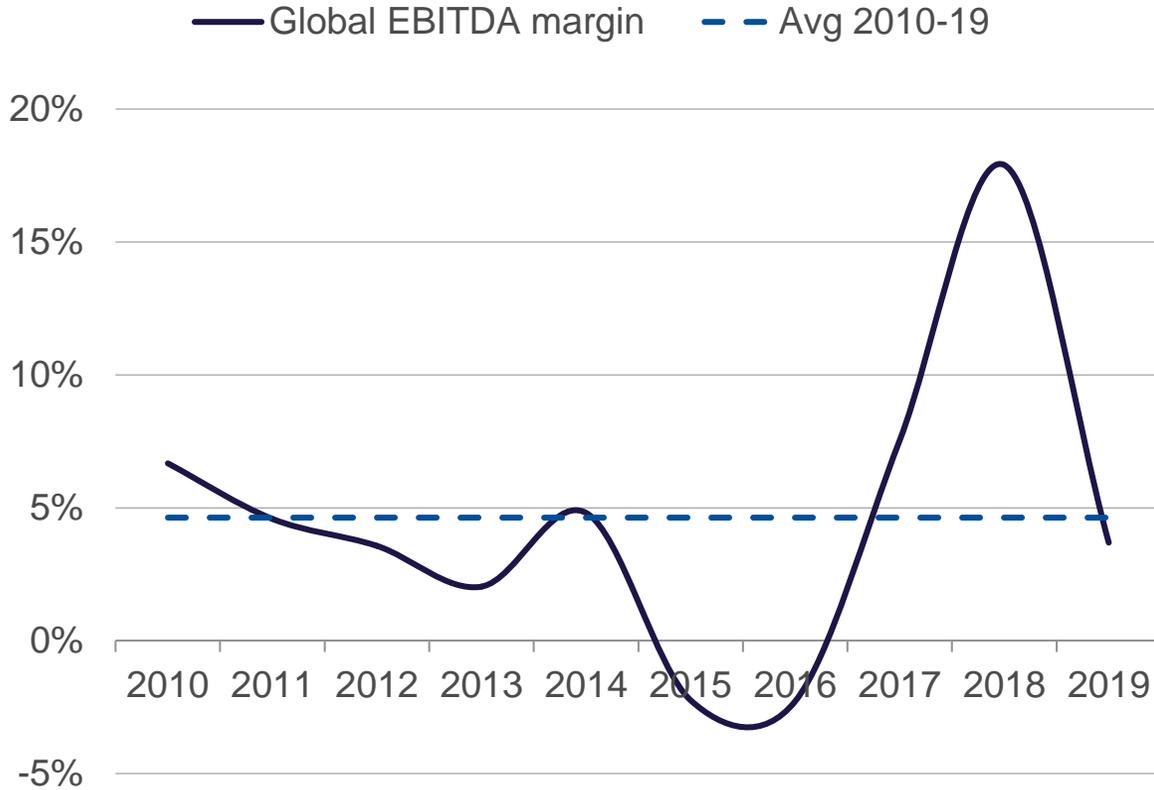
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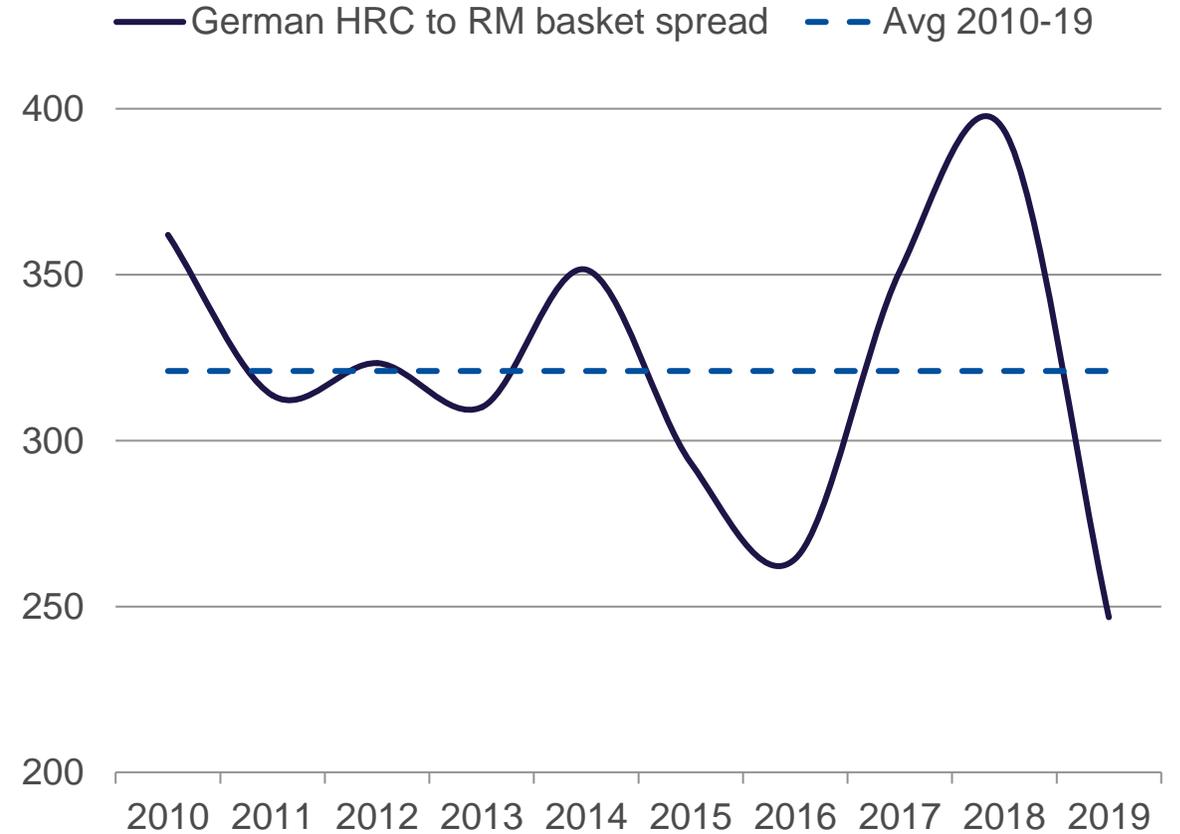
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The last decade saw significant 'high' and 'lows' in terms of industry profitability...

Global steel industry margin, % EBITDA



HRC to raw materials basket spread, US\$/t (real 2019)



...the industry was already delicately balanced going into the new decade.

Then Covid-19 struck!...

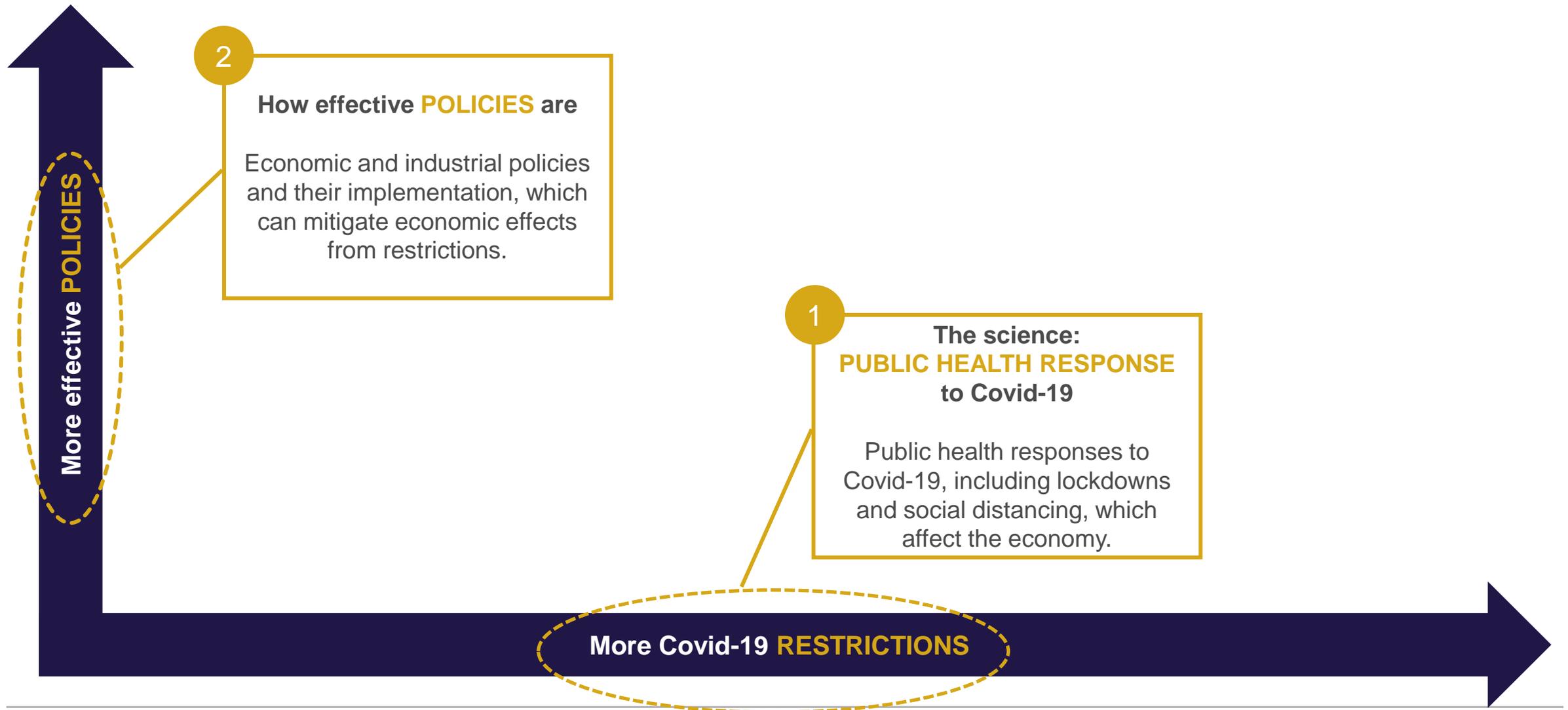


“...outside of China, Covid-19 means that 283Mt (annualised) capacity has been lost...”
June 23rd, 2020

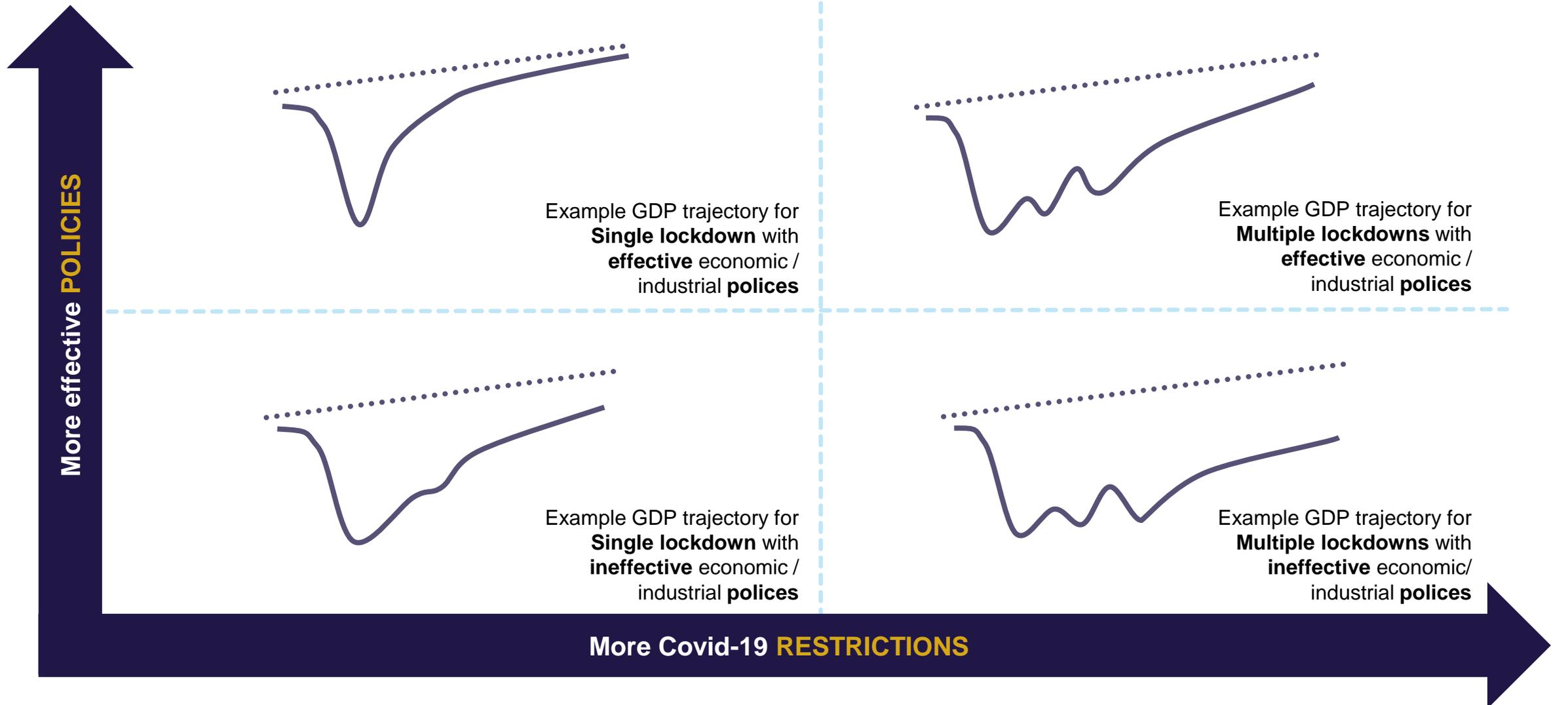
“...ArcelorMittal have announced it has stopped output at its Zenica works in Bosnia...”
April, 2020

“...reports suggesting major mills in Philippines have temporarily suspended operations at their EAFs...”
May 2020

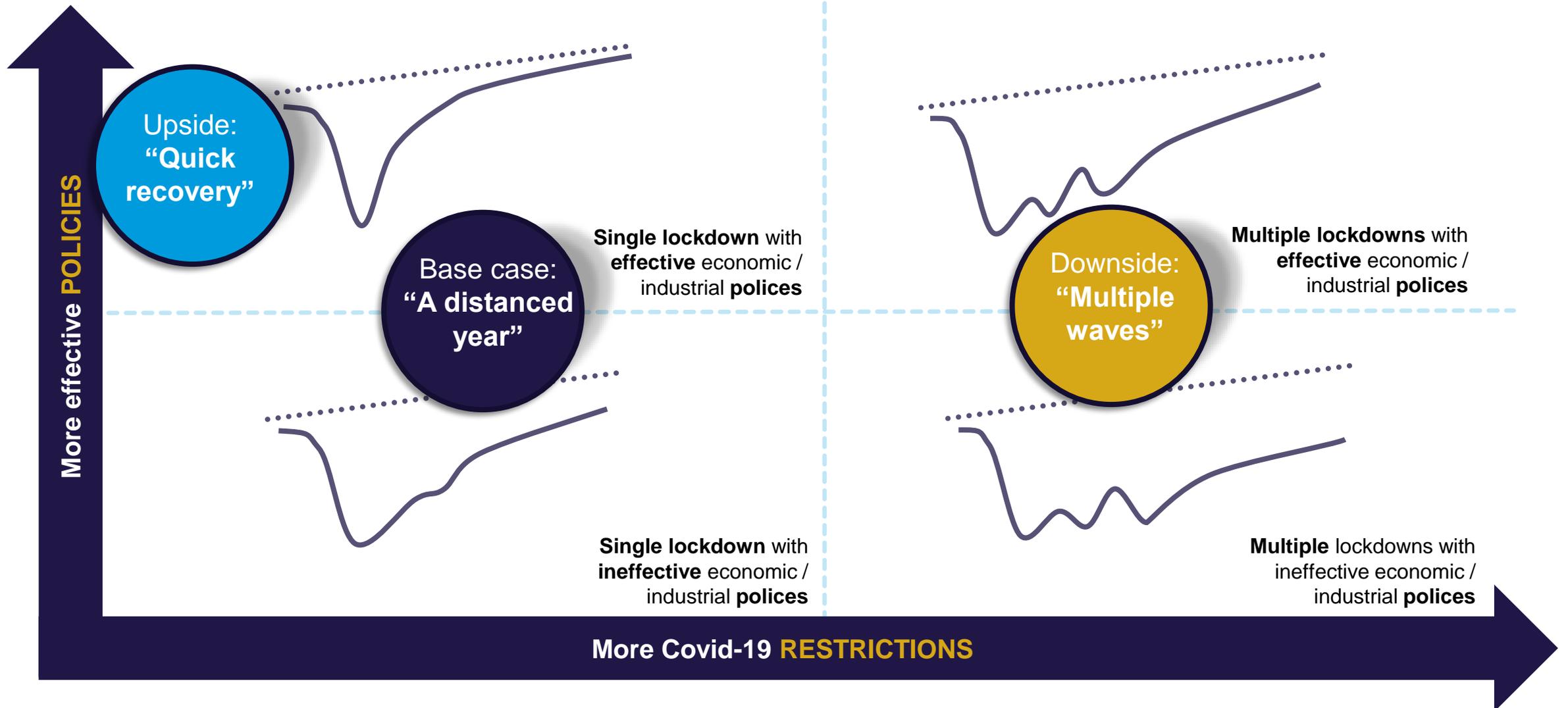
CRU's Covid-19 scenarios have been developed around the two **key uncertainties**...



...creating a range of outcomes



We have developed three likely outcomes as scenarios



Macro assumptions driving the forecast

Model levers	Upside “Quick recovery”	Base case “A distanced year”	Downside “Multiple waves”
<p>Covid-19 RESTRICTIONS</p> <p>The more severe the public health response to counter the spread of the epidemic, the deeper the economic downturn that it causes.</p>	<p>Social distancing (enforced and voluntary) ends by <u>June 2020.</u></p>	<p>Social distancing (enforced and voluntary) ends by <u>December 2020.</u></p>	<p><u>Two additional lockdowns</u> in Q4 2020 and Q2 2021, followed by gradual easing with social distancing until <u>December 2021.</u></p>
<p>Effectiveness of POLICIES</p> <p>Governments’ policy responses are aimed at cushioning the downturn. The more appropriate they are, and the more consumers/firms react positively to them, the quicker the recovery.</p>	<p>Quick recovery GDP returns to 2019 Q4 levels by <u>2020 Q4.</u></p>	<p>Moderate recovery Starts later in H2 2020 GDP returns to 2019 Q4 levels by <u>2021 Q2.</u></p>	<p>Slow recovery Starts later at end of 2021 GDP returns to 2019 Q4 levels by <u>2022 Q3.</u></p>

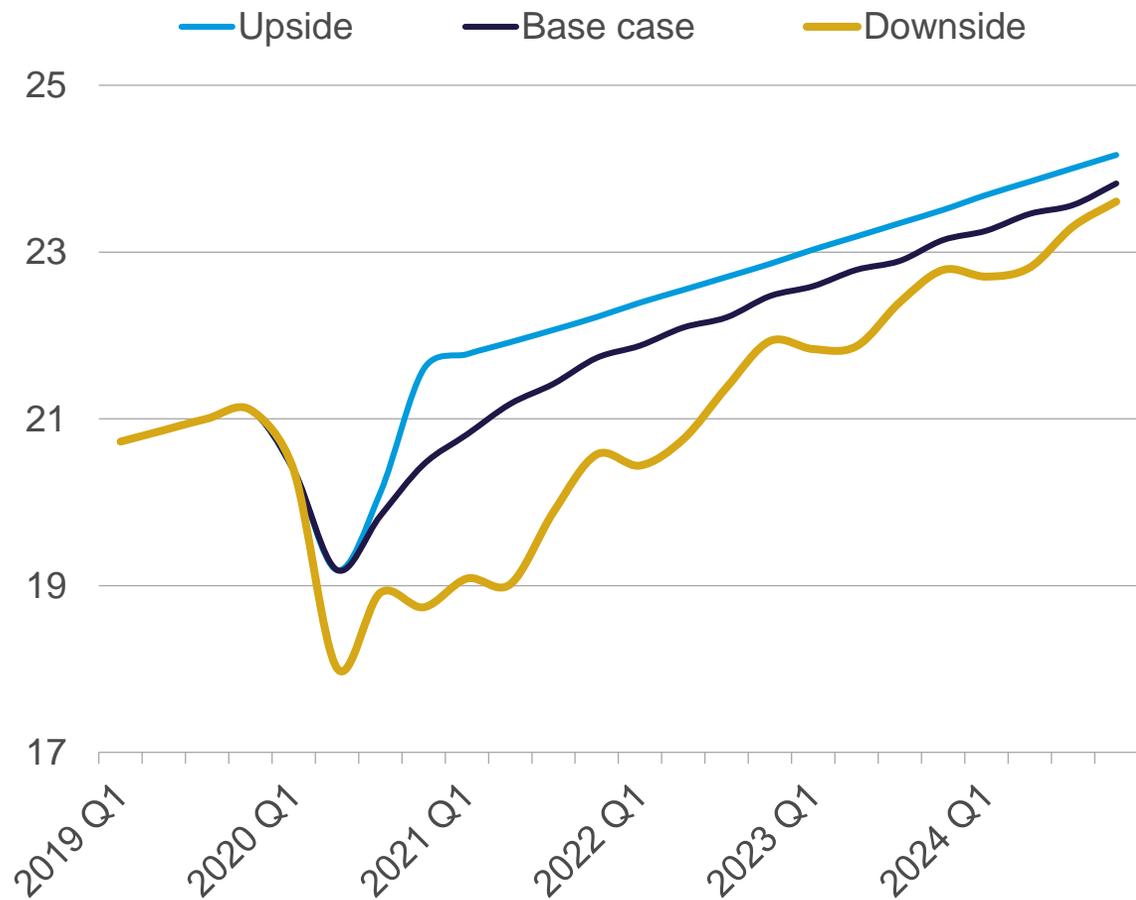
We have modelled falls in consumption in different economic sectors...

	Personal Consumption Expenditure (Major groups)	First lockdown	Gradual relaxation of restrictive measures	2 nd and 3 rd lockdowns
		% change in consumption with respect to 2019 Q4 level (or pre Covid-19 baseline)		
	Food and drink	9	3	6
	Clothing and footwear	-75	-35	-55
	Utilities	0	0	0
	Household goods	-60	-20	-40
	Health	4	2	4
	Transport	-70	-35	-50
	Communications	-4	0	-2
	Recreation and culture	-65	-25	-35
	Education	0	0	0
	Restaurants and hotels	-80	-50	-70
	Other goods and services	-40	-15	-20

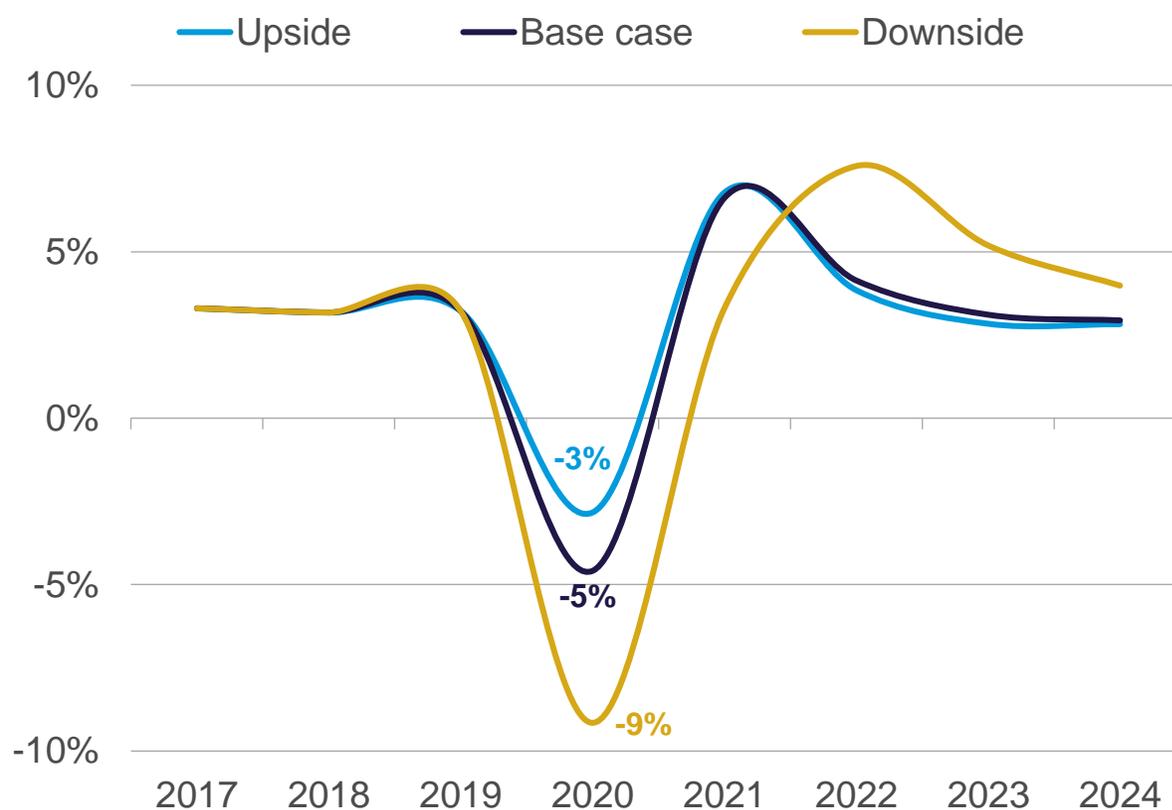
Key  Loss  Neutral  Gain

...resulting in global GDP forecasts

World GDP level, \$ trillion

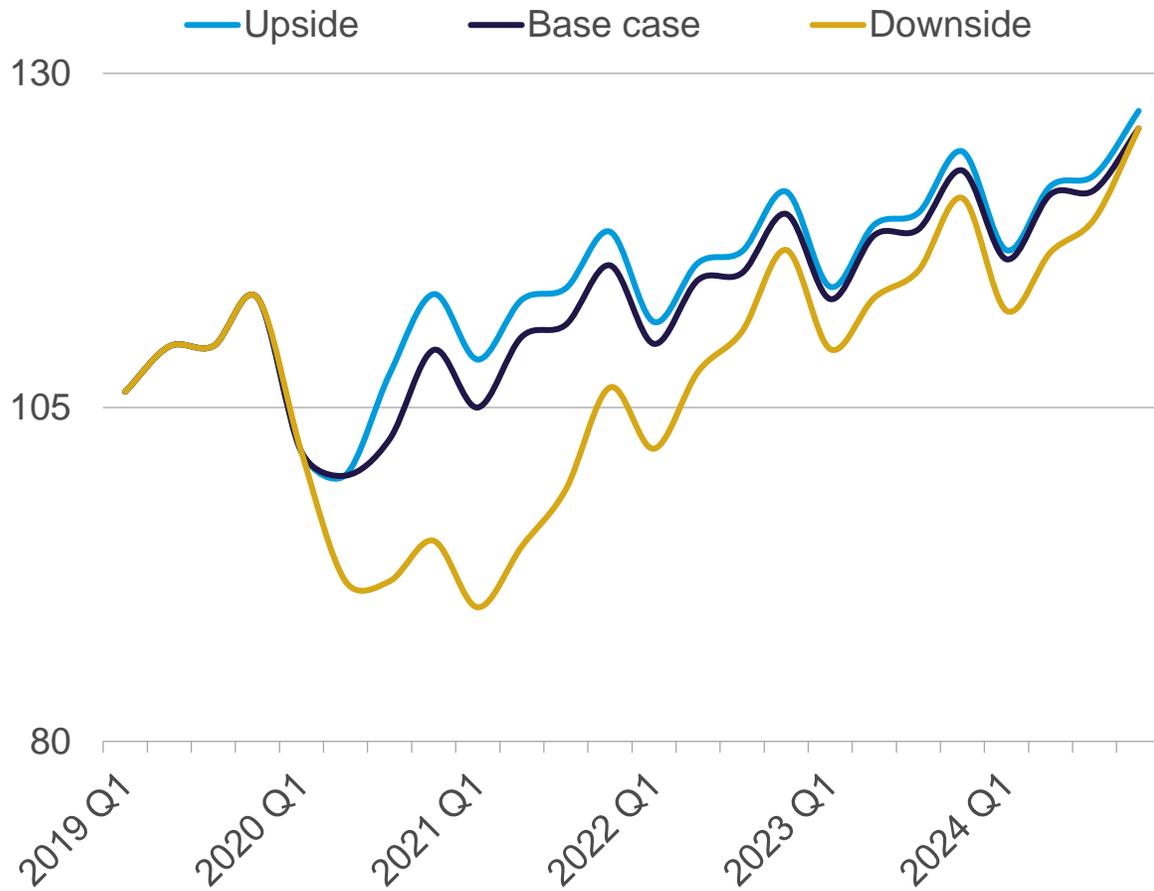


World GDP, % change, y/y

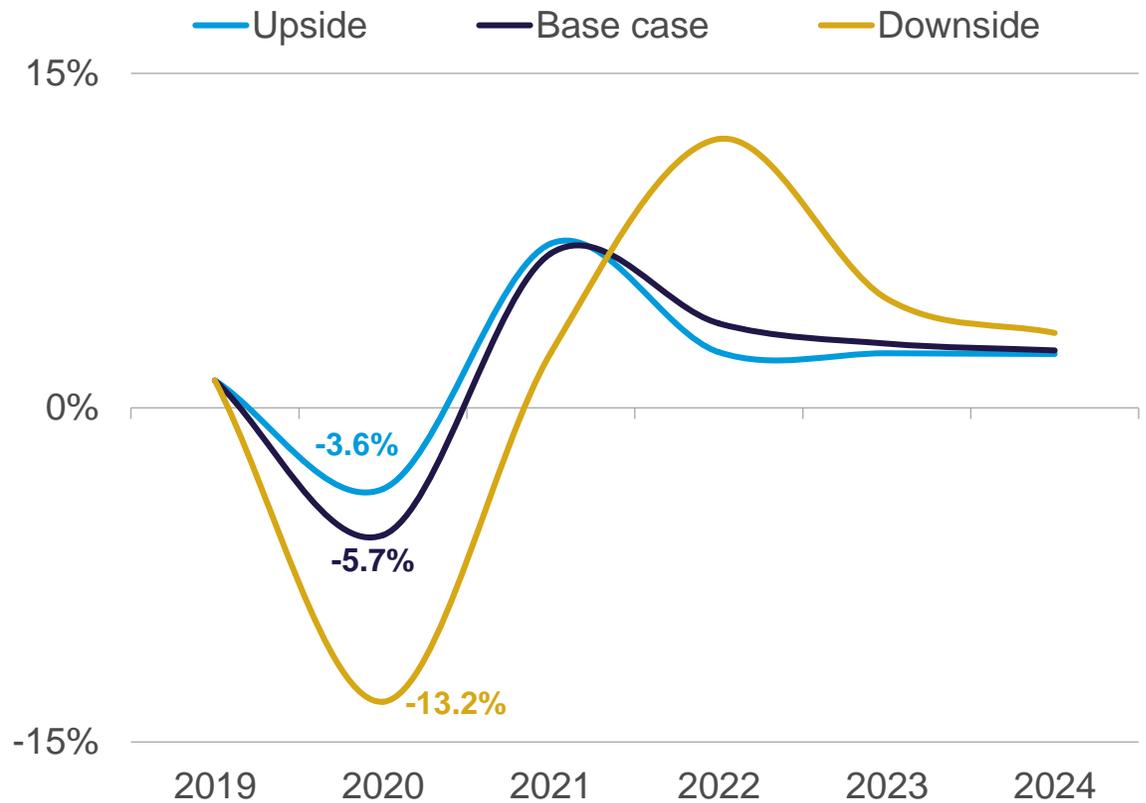


...and Industrial Production (IP) forecasts

World IP, index



World IP, y/y change, %



Some key takeaways from these scenarios...

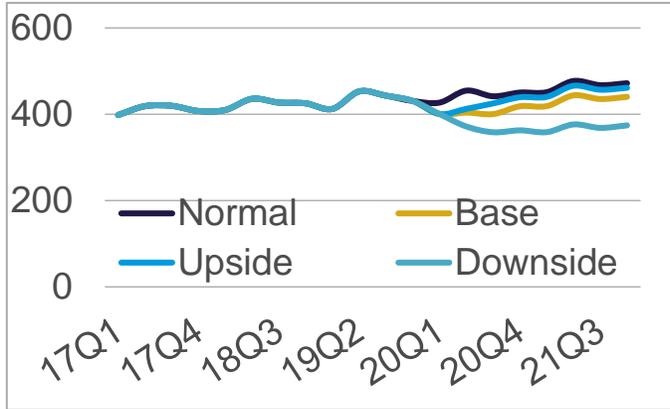
- **Considerable uncertainty** remains in any economic forecast as the world recovers from Covid-19
- A scenarios approach is a good way to 'embrace' what we believe to be the **two key uncertainties**:
 - Effectiveness of **government policy** and **industry response**
 - The **public health response** to Covid-19
- **GDP is forecast to contract in 2020, in all scenarios**, with a range of -3% y/y to -9% y/y
- Industrial Production (**IP**) is forecast to contract more than **GDP** during 2020.

So what does all this mean for global steel demand?...

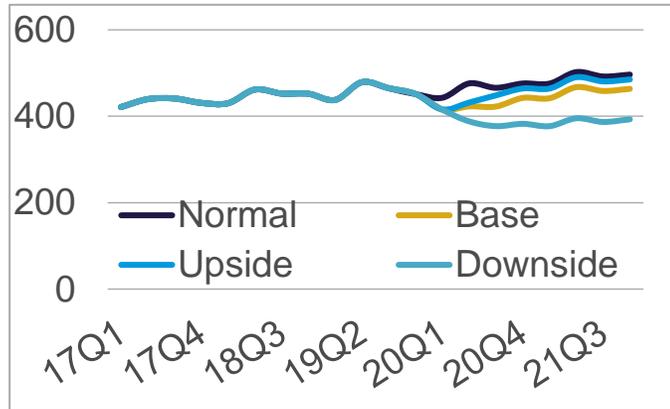


World

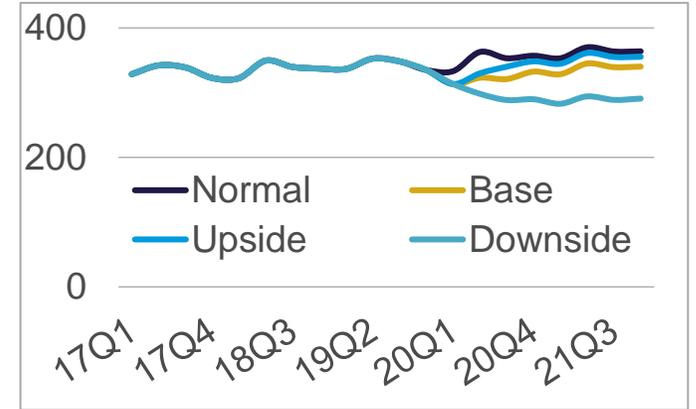
Finished Steel Demand (Mt/quarter)



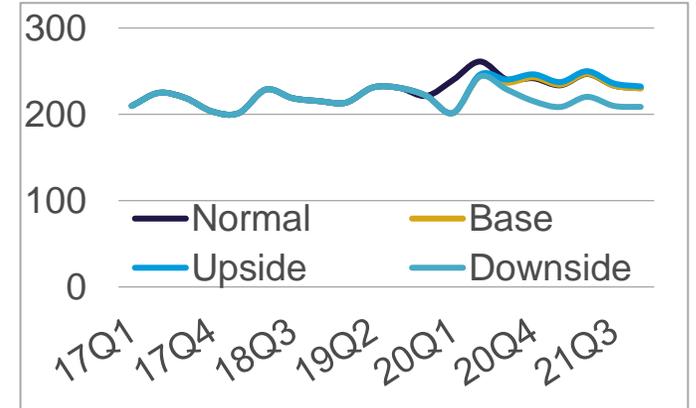
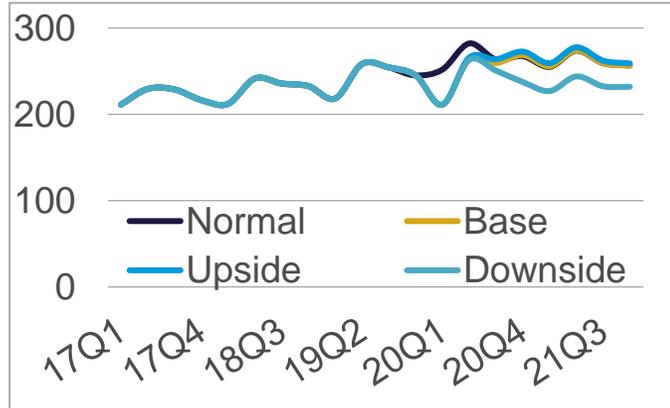
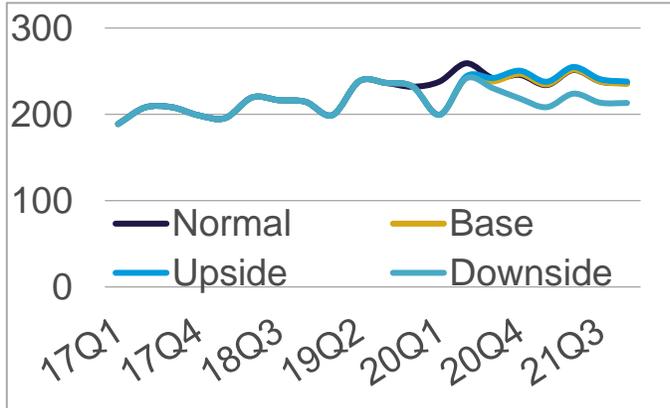
Crude Steel Production (Mt/quarter)



Hot metal production (Mt/quarter)



China



Implications of Covid-19 on the global steel industry...

Short / Medium Term

- **Weakness in demand** – only China is forecast to recover to ‘normal’ levels in our base case and upside case.
- **Overcapacity** – as supply comes back, risk of too much steel chasing too little demand, with knock-on effects for regions like SE Asia (see next slide).
- **High iron ore prices** – reduced spreads squeezing mill margins

Medium / Long Term

- Our base case and downside case show **shortfalls of demand of between 126mt and 391mt** annual demand shortfall compared to ‘normal’ levels, well into 2021 and beyond.
- The **decade will be defined** by how the industry responds to and is shaped by the following:

Lack of industry profitability slows move to LC technology



Accelerated switch / adoption of LC technology

Re-emergence of ‘national champions’



Distressed assets either closed or restructured through new ownership

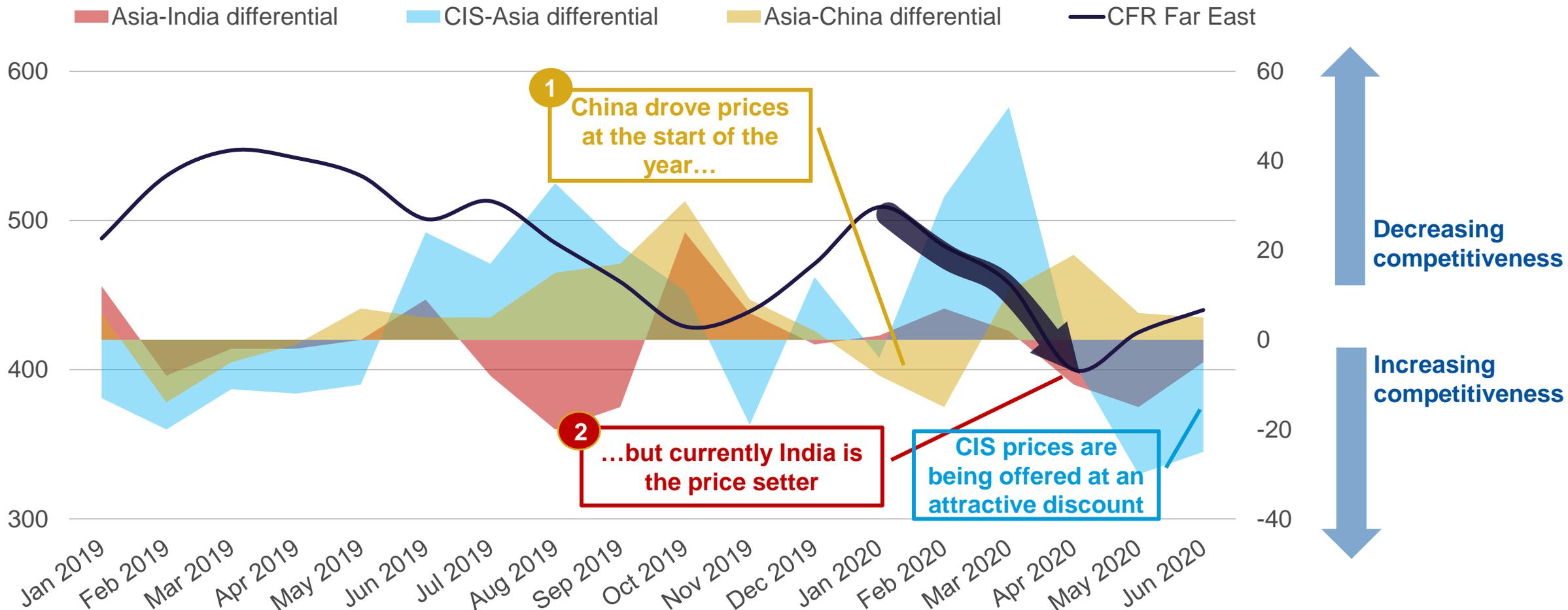
Return to nationalist agendas and protectionism creates structural over-capacity



Covid-19 crisis causes new projects / expansions to be re-appraised

Global demand weakness led to import competition in Southeast Asia

LHS: HR coil prices, \$/t ; RHS: offer vs tradeable price differential, \$/t



Several near term risks to Southeast Asian demand and prices

Import competition

- Domestic demand weakness in key exporting countries will draw import competition in Southeast Asia
- High cost competitiveness of these exporters will lead to price aggressiveness and production cuts at local mills unable to compete.

High iron ore prices

- Iron ore prices are very high relative to global demand and current prices largely hinge on strong Chinese demand
- Iron ore prices have been prone to Covid-19 related price shocks like those observed in Brazil
- Indian domestic iron ore prices are expected rise from mine auctions to be conducted in August which would affect India's export competitiveness

Inventory pressure

- Inventory levels have risen due to restricted end-use activity and weak exports.
- Inventories of products like HDG coil are more prone to remain high due to sustained weakness in automotive demand.

Investment for new projects

- Investments for new projects will likely be affected by restricted public spending and weaker than usual FDI flows.

Weaker 2020 H2

- Demand in 2020 H2 is under risk from a second wave of Covid-19 outbreak
- Demand will also be affected by slower productivity due to social-distancing measures in place

Some concluding remarks...

- The global steel industry **entered the new decade delicately balanced**, facing significant challenges but also opportunities.
- Covid-19 is and will remain a **major disruptor** for some time – both on **demand and supply** sides.
- CRU has developed **three economic scenarios to model the impact of Covid-19** on global and regional steel demand.
- The industry will need to adjust to a **‘new normal’ of reduced demand of between -2% and -7% lower** than ‘normal’ levels until at least the end of 2021, with a risk of a downside of **-21%**
- Opportunity to use the crisis to **accelerate responses** to pre-pandemic challenges, such as decarbonisation.
- Covid-19 has identified a new core competency required of businesses across all sectors – **‘resilience’**. The steel industry has a **long history of resilience** and has shown the ability to rebound from crises before – **it will do so again!**



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