

2017العربي الـ 17و المعرض الدولي للحديد و الصلب17th Arab Steel Summit
and International Iron and Steel Exhibition



World Steel Outlook

worldsteel

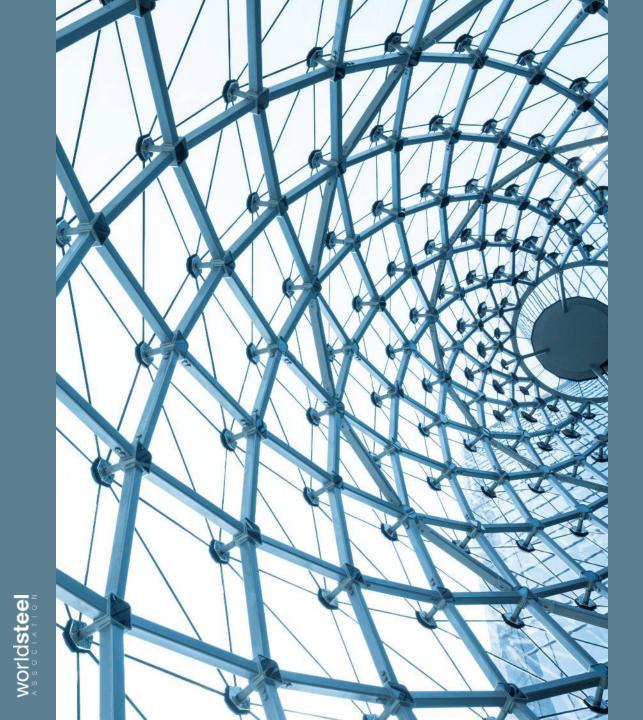


World steel outlook

Adam SZEWCZYK Head, Data Management World Steel Association 14 October 2024, Doha

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worldsteel – who we are

The World Steel Association (worldsteel) is a non-profit organisation. It has headquarters in Brussels, Belgium. A second office in Beijing, China, opened in April 2006.

worldsteel represents steel producers, national and regional steel industry associations, and steel research institutes. Members represent around 85% of global steel production.

worldsteel – our key focus areas

worldsteel is active in key areas of interest to the steel industry:













Automotive

Climate change Comr and environment

Communications Cons

Construction

Education and training

Life cycle assessment







Safety and health



Sustainability



Steel market

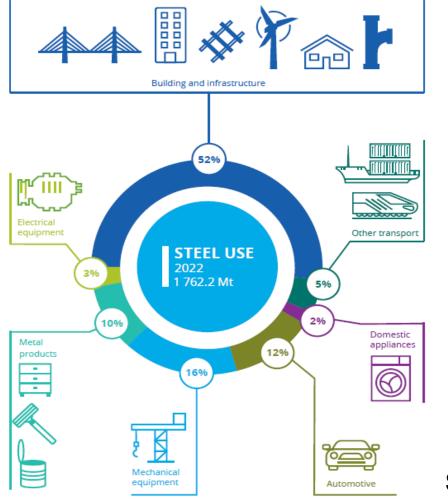
analysis



Technology

Role of steel in the global economy

Steel is all around us



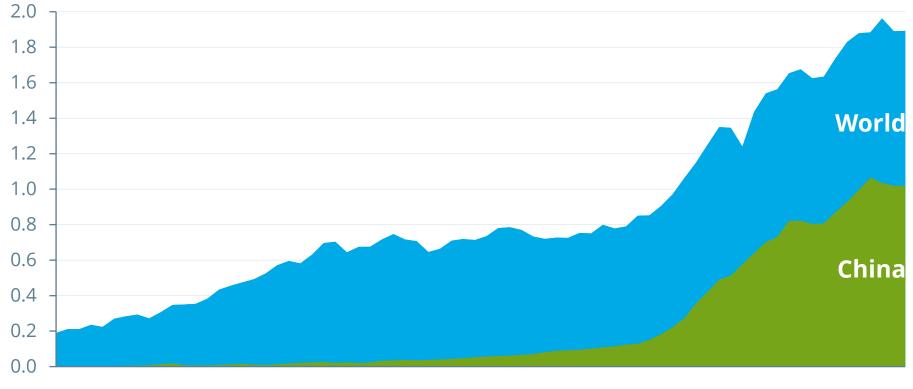
Steel use by sector



Worldsteel

Global crude steel production 1950-2023

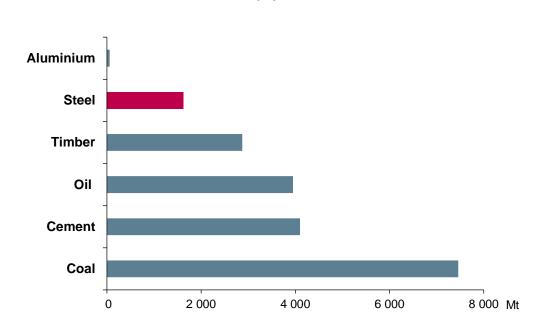
billion tonnes



1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 2020

Why is steel important in the global economy

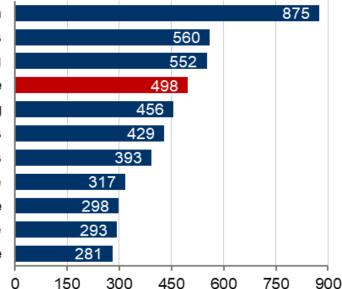
Production of steel and other commodities



Value added of selected industries

US \$ billion

Oil & gas extraction Rubber & plastic products Metal mining; quarrying Iron & steel manufacture Paper products, printing Electronic components Aircraft, rail equipment, ships Beverage manufacture Non-ferrous metal manufacture Textile manufacture Wood product manufacture



Source: Oxford Economics 2018

Source: worldsteel, USGS, OECD, BP, FAOUN

World steel outlook 2024-2025

Global overview

Steel demand, finished steel (SRO October 2024)



Despite headwinds, the global economy expected to settle in a steady growth path in 2024-2025

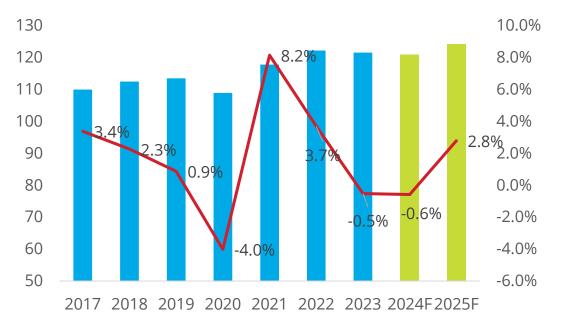


IMF GDP projections

Source: IMF WEO July 2024 update

The global economy should gain further traction in 2025. Yet we continue to see risks mainly stemming from increasing geopolitical uncertainties and tensions

Weakness in housing construction activity persisted in 2024. Expected easing of financial conditions should trigger the start of a recovery in 2025



World excl. China Residential Construction Output

Multifamily segment, Index 2005=100 and annual growth (right axis)

Source: Oxford Economics

Automotive sector is cooling off, after an exceptional year of double-digit growth in 2023. We expect the growth to pick up in 2025

Global light vehicle production Millions and annual growth (right axis)



Source: ING research

Regional overview

Steel demand, finished steel (SRO October 2024)

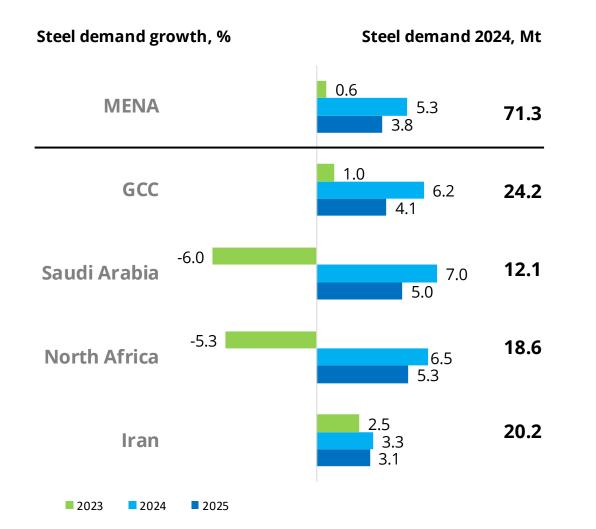
	Mt					%
	2023	2024	2025	23/22	24/23	25/24
World	1 767.0	1 750.9	1 771.5	-0.8	-0.9	1.2
European Union (27) & United Kingdom	138.7	136.6	141.4	-8.7	-1.5	3.5
Other Europe	44.7	42.5	42.2	14.7	-5.0	-0.7
Russia & other CIS + Ukraine	60.3	60.5	60.0	11.5	0.3	-0.8
USMCA	132.5	131.3	133.4	-0.3	-0.9	1.6
Central & South America	45.7	45.6	47.8	1.0	-0.3	4.8
Africa	35.4	37.1	38.9	0.5	4.8	4.8
Middle East	54.2	56.9	58.7	4.2	4.9	3.3
Asia & Oceania	1 255.5	1 240.5	1 249.1	-1.2	-1.2	0.7
China	895.7	868.8	860.1	-3.3	-3.0	-1.0
India	132.8	143.4	155.6	14.4	8.0	8.5
Developing Asia excl. China & India	90.9	95.4	99.4	-1.4	5.0	4.2
Developed Asia	128.6	126.0	126.9	0.1	-2.0	0.7
World excl. China	871.3	882.1	911.4	2.0	1.2	3.3

China Steel demand, finished steel (SRO October 2024)

		Mt				
	2023	2024	2025	23/22	24/23	25/24
World	1 767.0	1 750.9	1 771.5	-0.8	-0.9	1.2
China	895.7	868.8	860.1	-3.3	-3.0	-1.0

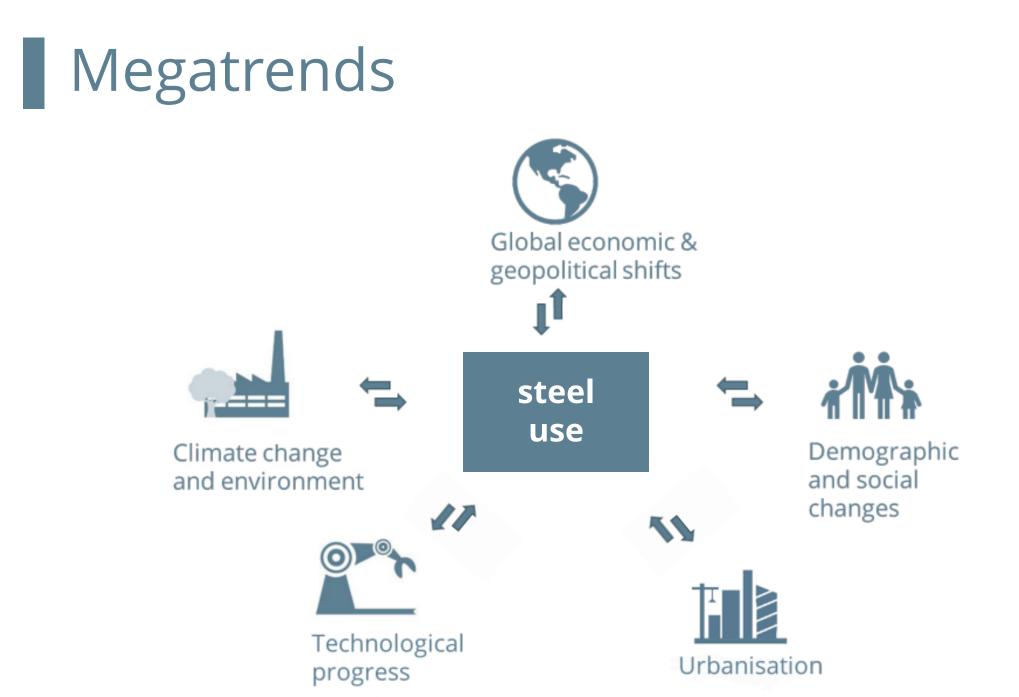
- The decline in real estate investments has been more pronounced than initially anticipated. While
 infrastructure investments and manufacturing sectors in China demonstrated continued growth in
 steel demand throughout 2024, this positive momentum was insufficient to counterbalance the sharp
 downturn experienced in the real estate sector.
- We anticipate a continued decline in new starts and completions in 2025, and this to result in another drop in Chinese steel demand in 2025
- We acknowledge an upside risk to our 2025 forecast. There is a growing possibility of more substantial government intervention and support for the real economy, which could bolster Chinese steel demand in 2025.

Africa and the Middle East Steel demand, finished steel (SRO October 2024)



- A drop in the region's steel demand in 2023 driven by Israel- Gaza War, Red Sea Crisis, weak external demand
- Strong rebound expected in the overall MENA region in 2024, driven by Improvements in external demand and strong project pipeline and economic diversification efforts in the GCC region and strength in housing activity in UAE
- A further escalation in geopolitical tensions and oil price volatility remains as key risks to our forecasts

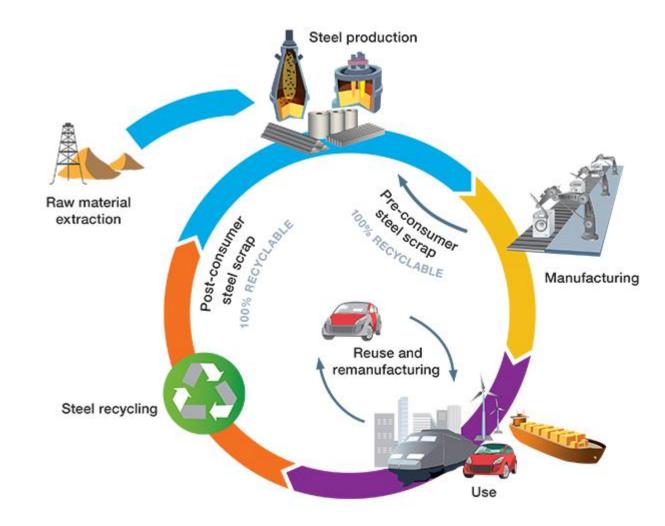
Challenges ahead



Climate change



The life cycle of steel



Sustainability is crucial for the global steel industry



IND	ICATORS*	UNIT	2020	2021	2022			
ENV	ENVIRONMENTAL PERFORMANCE							
1.	CO2 emissions intensity	tonnes CO2 per tonne crude steel cast	1.88	1.91	1.91**			
2.	Energy intensity	GJ per tonne crude steel cast	20.38	21.02	20.99**			
3.	Material efficiency	%	97.86	97.56	97.65			
4.	Environmental management system	96	96.13	95.66	96.15			
soc	SOCIAL PERFORMANCE							
5.	Lost time injury frequency rate	injuries per million hours worked	0.85	0.85	0.65			
6.	Employee training	training days per employee	7.15	6.72	7.78			
ECC	ECONOMIC PERFORMANCE							
7.	Investment in new processes and products	%	8.03	6.29	6.29			
8.	Economic value distributed	%	97.77	93.78	96.57			

* For details on the calculation methodology for each of these indicators, please refer to this section ** For details on indicators 1 and 2, please refer to this section

constructsteel

Solution Development

- ✓ Bridges
- ✓ Zero Energy Building
- ✓ Steel-Concrete Composite
- ✓ Steel-Timber Composite
- ✓ Life Cycle Assessment
- ✓ High Strength Steel
- ✓ Industrialization of Construction
- ✓ Disaster Prevention & Restoration
- ✓ Aesthetics (under review)



Ecosystem Development

- ✓ Communication
- ✓ Steel Solution Platform
- Global Advisory Council
- ✓ Education
- ✓ constructsteel Award
- ✓ Annual conference
- ✓ Advocacy





Education vidoes



Best Project Japan National Stadium



WorldAutoSteel

Current activity focus

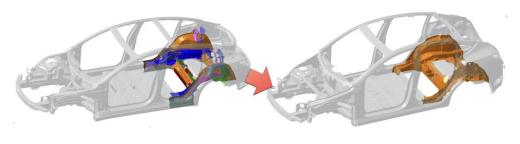
Steel E-Motive



LCA



HPDC (High Pressure Die Casting)



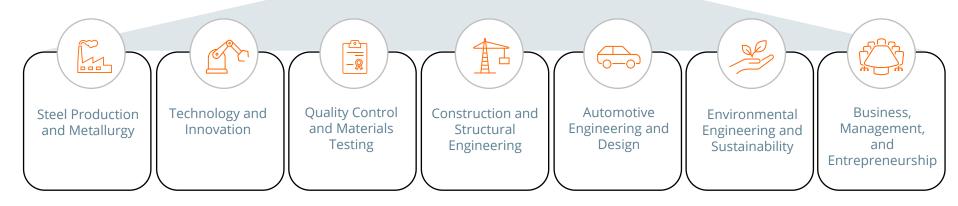
Model 3 rear underbody 70 pieces of metal Model Y rear underbody 2 pieces of metal (eventually a single piece)

LME (Liquid Metal Embrittlement)



steeluniversity





Summary

Summary

- Global steel demand to enter a phase of moderate growth in 2025
- Progress made in stabilization of China's real estate sector is a key determinant of the global steel demand outlook 2025/2026
- Broad-based growth in the world-excluding China
- Broad-based recovery of steel using sectors
- Risks associated to development of geopolitical situation

Thank you for your attention



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ASSOCIATION

worldsteel.org | constructsteel.org | steeluniversity.org | worldautosteel.org | worldstainless.org

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