

XIII CONFERÊNCIA ANUAL RESILIÊNCIA E TRANSIÇÃO ENERGÉTICA
9 novembro 2022 Fundação Dr. António Cupertino de Miranda Porto 9h-17h

Impactos da Geopolítica
na Resiliência e Transição Energética... e vice-versa

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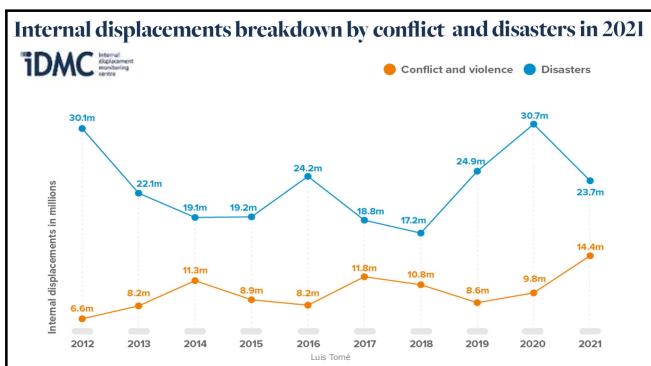
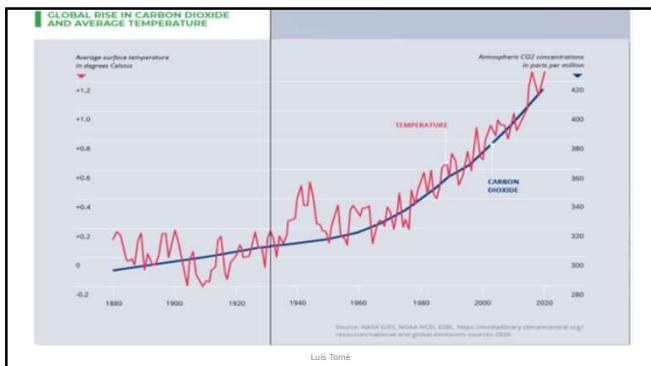
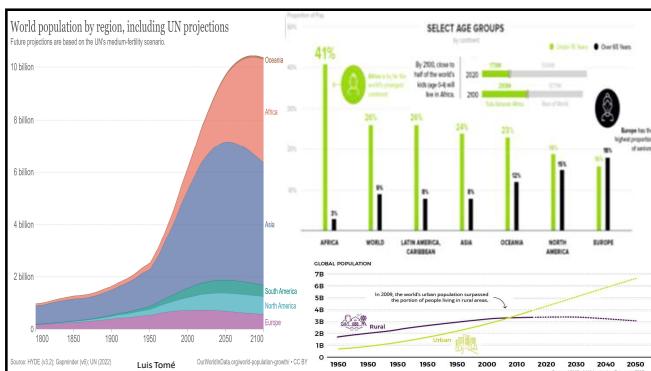
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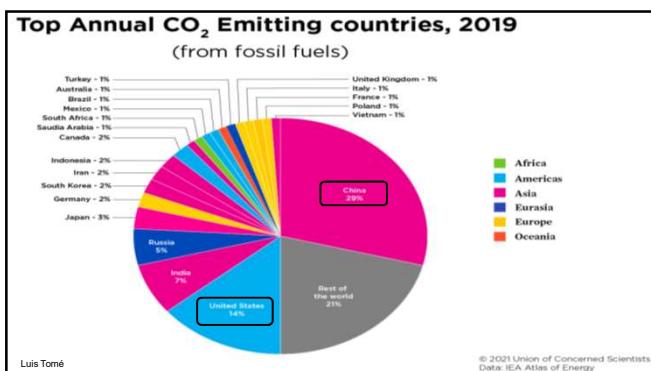
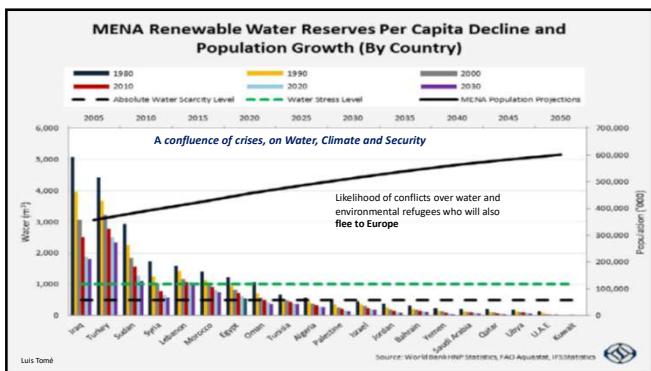
1. Grandes Transformações Globais
2. Centralidade da Ásia-Pacífico e da RPChina
3. Reconstrução da Ordem Mundial
4. Transformações na Geopolítica da Energia
5. Impactos Geopolíticos das Energias renováveis

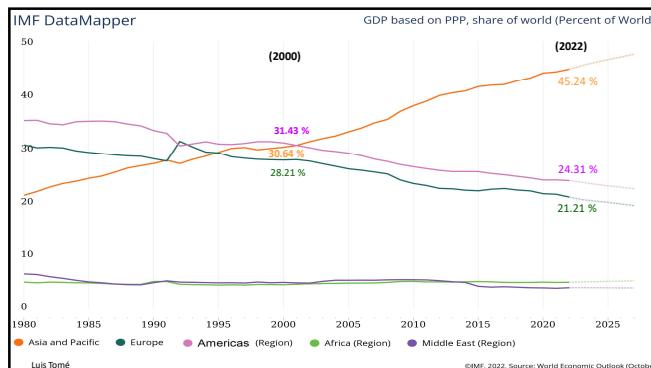
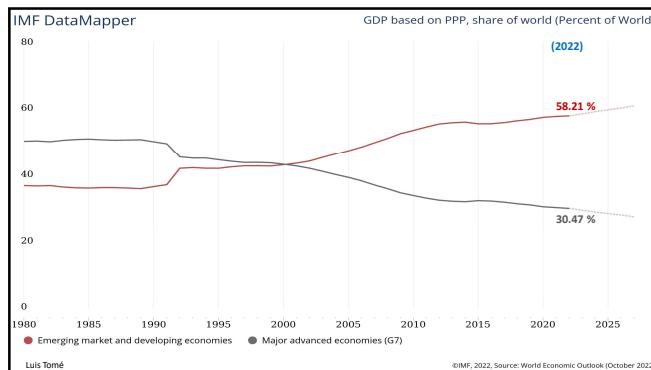
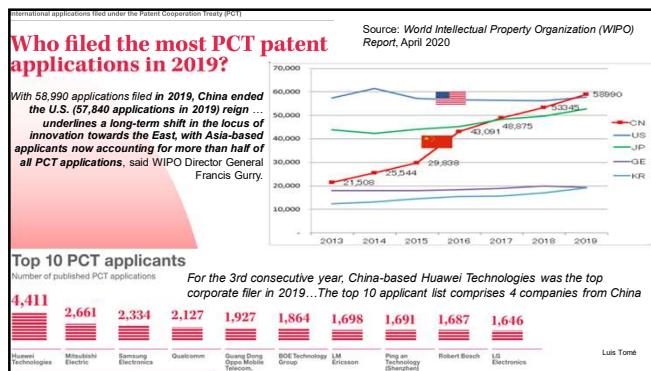
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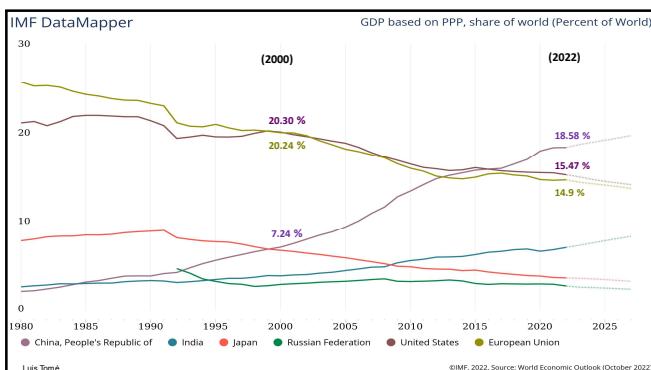
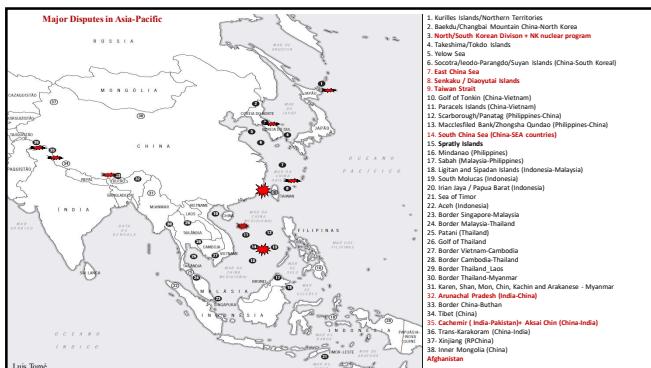
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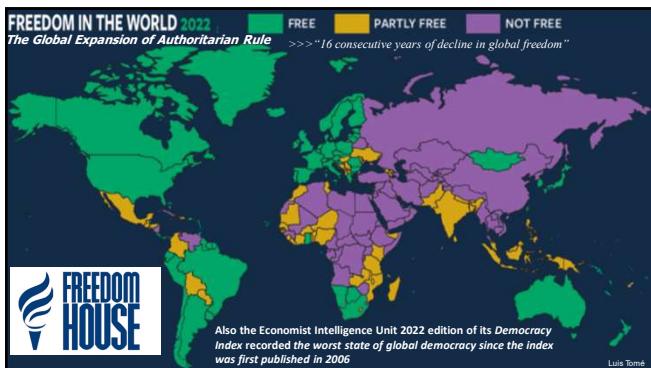
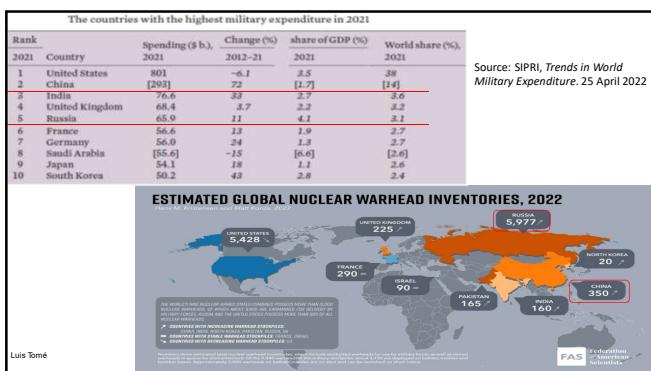


Military expenditure by region in constant US dollars © SIPRI 2022					
Region	1988	1998	2008	2018	2021
World total	1521.3	10642.2	16540.0	18590.0	20066.6
Africa	15.2	134.4	30.4	34.7	36.9
North Africa	3.1	4.9	8.8	16.4	18.0
Sub-Saharan Africa	12.1	8.6	21.7	18.4	18.8
Americas	726.3	505.3	849.4	778.8	845.8
Central A. & the Caribbean	3.9	4.0	5.0	7.6	10.0
North America	695.2	474.9	807.9	726.0	791.8
South America	27.2	26.3	36.5	45.2	44.1
Asia and Oceania	137.9	182.1	300.0	494.9	553.1
Central Asia	0.0	0.3	1.1	1.6	1.7
East Asia	83.8	112.3	190.9	336.8	385.7
Oceania	14.1	15.4	21.3	28.0	31.6
South Asia	25.6	33.1	56.1	87.8	90.8
South-East Asia	14.5	21.0	30.5	40.7	43.2
Europe	571.6	273.8	333.9	345.9	392.6
Central Europe	32.4	18.1	21.4	28.0	34.4
Eastern Europe	260.0	16.2	49.7	65.7	73.2
Western Europe	279.2	239.6	262.8	252.2	285.1
Middle East	70.4	89.6	140.3	204.7	178.2
<small>Units: US\$ b., at constant 2020 prices and exchange rates</small>					



Countries and Regions, Trade (Impts + Expts) with Main Partners									
	Ranking and share (%), (2021)								
	PARTNER								
	China, PR	Japan	ASEAN10	S. Korea	Russia	USA	India	Australia	EU27
China, PR		3 (6.2)	(9.3)	4 (6.0)	11 (2.1)	2 (12.5)	14 (1.7)	8 (3.8)	1 (13.7)
Japan	1 (22.9)		(12.3)	5 (5.5)	14 (1.1)	2 (14.3)	13 (1.5)	7 (4.4)	4 (10.2)
ASEAN10	1 (25.6)	4 (9.2)	(24.7)	5 (7.2)	13 (0.7)	2 (14.2)	8 (3.5)	9 (3.0)	3 (10.3)
S. Korea	1 (23.9)	4 (6.7)	(10.2)		10 (2.2)	2 (13.5)	16 (1.6)	7 (3.4)	3 (10.5)
Russia	2 (18.0)	9 (2.5)	(1.7)	6 (3.8)		4 (4.5)	10 (1.7)	33 (0.1)	1 (35.9)
USA	4 (14.3)	5 (4.6)	(4.5)	7 (3.5)	23 (0.4)		9 (2.5)	15 (1.0)	1 (16.6)
India	2 (11.4)	12 (2.1)	(9.3)	11 (2.6)	18 (0.6)	1 (11.6)		13 (1.7)	3 (10.8)
Australia	1 (33.3)	2 (10.3)	(10.1)	5 (6.0)	21 (0.3)	4 (6.5)	8 (3.4)		3 (8.8)
EU27	1 (16.2)	8 (2.9)	(7.8)	9 (2.5)	5 (5.8)	2 (14.7)	10 (2.1)	21 (1.0)	

Fonte: European Commission - DG Trade, Statistics
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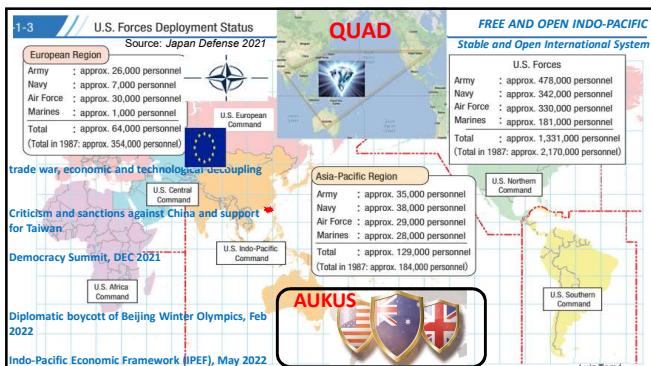
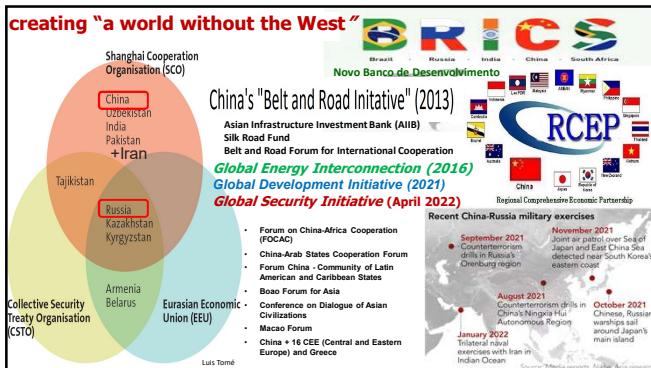


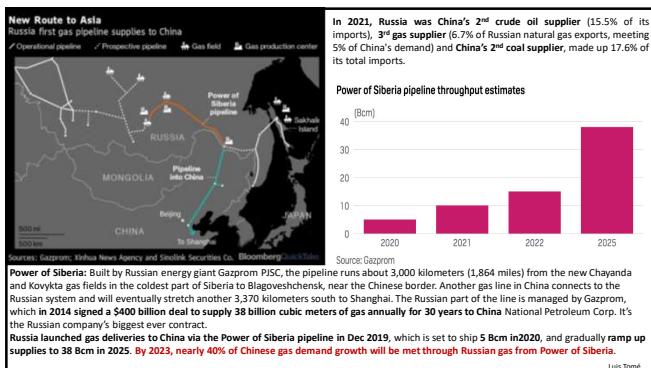
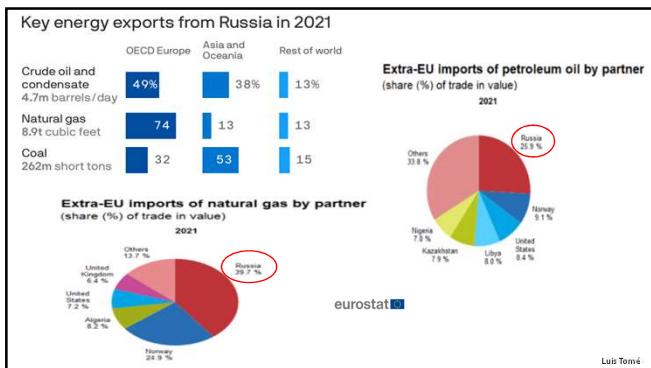
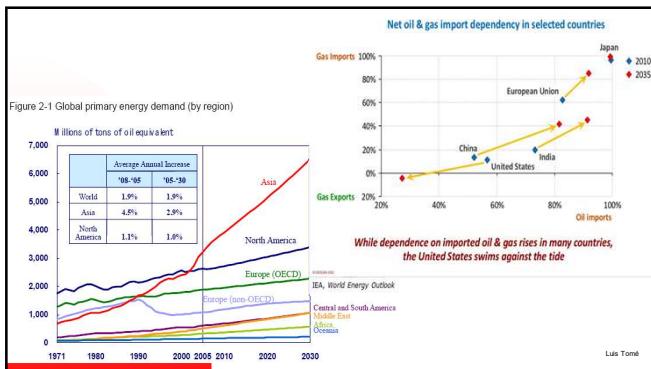


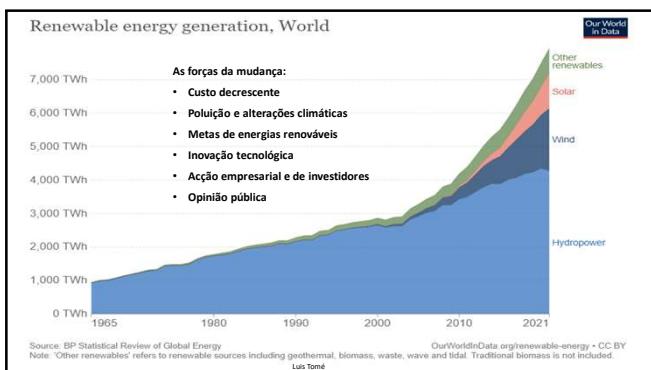
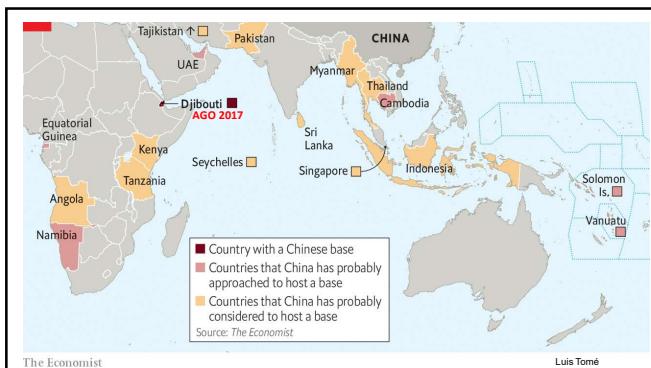
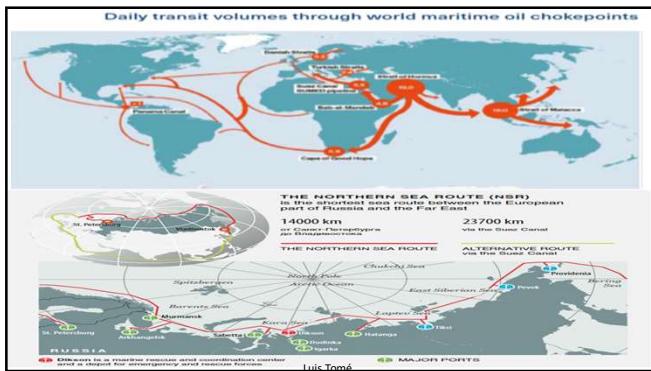
Maiores importadores de armas e seus principais fornecedores, 2017-2021										
Importador	Share of global arms imports (%)			Per cent change from 2012-16 to 2017-21			Main suppliers (share of importers' total imports, %), 2017-21			
	2017-21	2012-16	2017-21	Int.	2nd	3rd	France	US	UK	Other
1 India	11	14	-11	Russia	(6)	France	(7)	US	(2)	
2 Saudi Árabs	11	8.2	27	USA	(8)	France	(12)	UK	(5)	
3 Egyp	5.7	2.2	33	Russia	(6)	France	(2)	Italy	(5)	
4 Australia	5.4	2.2	42	USA	(6)	Spain	(2)	Switzerland	(2)	
5 China	4.8	4.4	42	Russia	(8)	France	(2)	Ukraine	(5)	
6 Qatar	4.1	1.3	227	USA	(6)	France	(8)	Italy	(6)	
7 South Korea	4.1	2.2	71	USA	(6)	Germany	(2)	France	(7)	
8 Polônia	2.0	2.2	-11	China	(7)	Indon	(4)	Russia	(5)	
9 UAE	2.8	4.5	-42	USA	(6)	France	(6)	Russia	(2)	
10 Japan	2.6	1.8	132	USA	(6)	UK	(7)	Sweden	(5)	

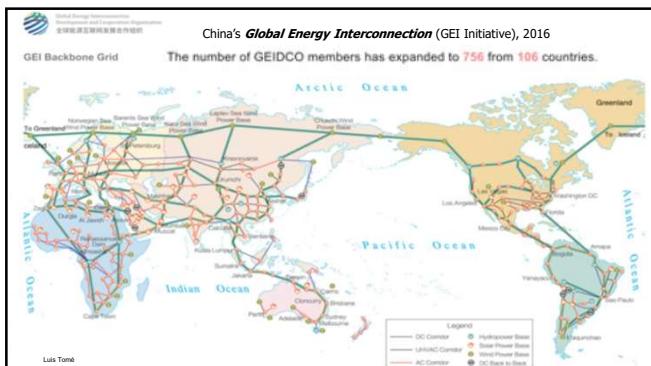
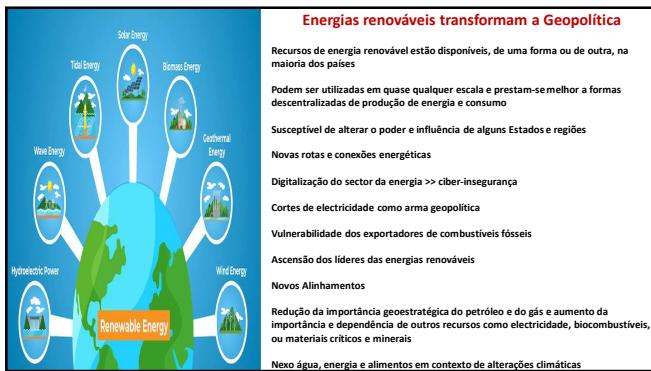
Maiores exportadores de armas e seu principais clientes, 2017-2021										
Exportador	Share of global arms exports (%)			Per cent change from 2012-16 to 2017-21			Main recipients (share of exporter's total exports, %), 2017-21			
	2017-21	2012-16	2017-21	Int.	2nd	3rd	US	UK	Other	
1 United States	39	32	14	Saudi Árabs	(2)	Australia	(4)	South Korea	(1)	
2 Russia	19	24	-26	India	(2)	China	(2)	Egypt	(2)	
3 France	11	6.4	59	India	(2)	Qatar	(3)	Egypt	(2)	
4 China	4.6	4.6	-31	Pakistan	(6)	Bangladesh	(6)	Thailand	(5)	
5 Germany	4.5	5.4	-19	South Korea	(2)	Egypt	(4)	USA	(4)	
6 Italy	2.2	2.5	31	Egypt	(2)	Turkey	(3)	Qatar	(4)	
7 United Kingdom	2.9	4.7	-41	Oman	(2)	Saudi Árabs	(3)	USA	(4)	
8 South Korea	2.8	1.6	277	Philippines	(4)	Indonesia	(4)	UK	(4)	
9 Spain	2.5	2.2	30	Australia	(3)	Turkey	(2)	Belgium	(4)	
10 Israel	2.4	2.5	-5.6	India	(2)	Azerbaijan	(2)	Vietnam	(1)	
11 Ukraine	0.7	1.5	-72	China	(2)	Thailand	(2)	Russia	(2)	

Source: SIPRI Arms Transfers Database, Mar. 2022.
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Global Gateway (2021)

Nova estratégia europeia para promover ligações inteligentes, limpas e seguras. Entre 2021 e 2027, a UE mobilizará até 300 mil milhões de EUR para intensificar a oferta aos seus parceiros com investimentos no desenvolvimento de infraestruturas em todo o mundo.

Key guiding principles for investments

- Promoting democratic values and high standards
- Green and clean infrastructures
- Good governance and transparency
- Equal partnership
- Security focused
- Catalyse private sector investment

5 investment priorities

Global Gateway will focus on five main sectors

- Digital.** The EU will support open and secure internet
- Climate and energy.** The EU will support investments and rules paving the way to the clean energy transition
- Transport.** The EU will support all modes of green, smart and safe transport
- Education and Research.** The EU will invest in high quality education, with a special focus on girls and women and vulnerable groups
- Health.** The EU will help strengthen supply chains and local vaccines production

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International Solar Alliance (ISA)

Steering Group Member Countries:

The One Sun Declaration has been endorsed by International Solar Alliance (ISA) member countries:

A "ISA desempenhará o papel da OPEP no futuro" (PM Modi, 2015)

MISSION INNOVATION

TRANSPORT DECARBONISATION ALLIANCE

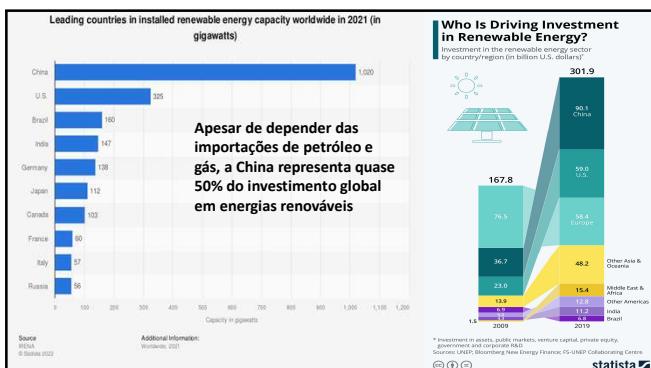
GLOBAL GEOTHERMAL ALLIANCE

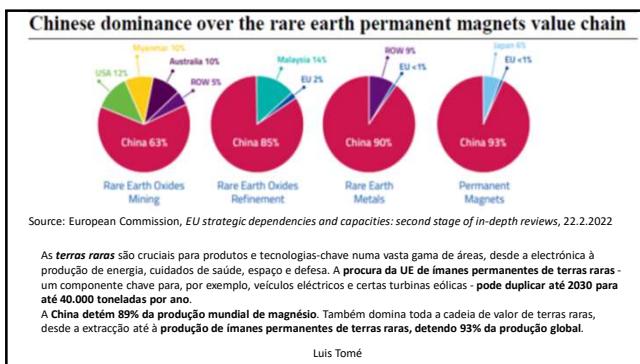
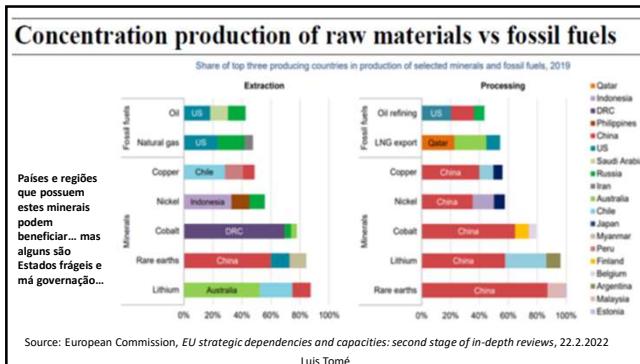
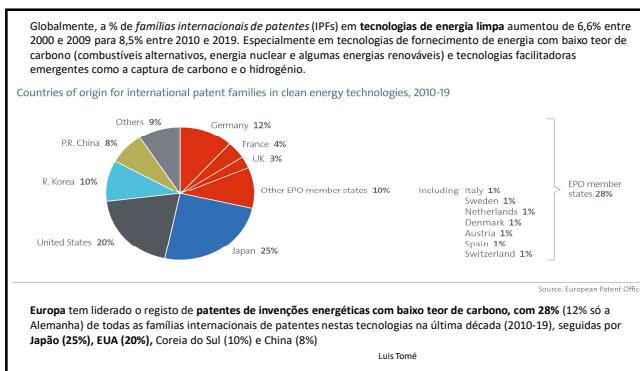
BALI DECLARATION: The Alliance for Industry Decarbonization

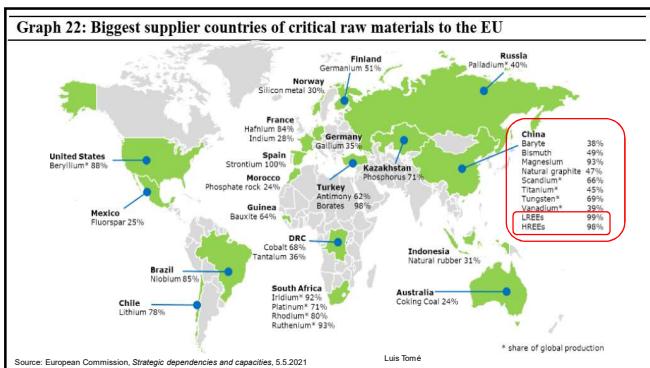
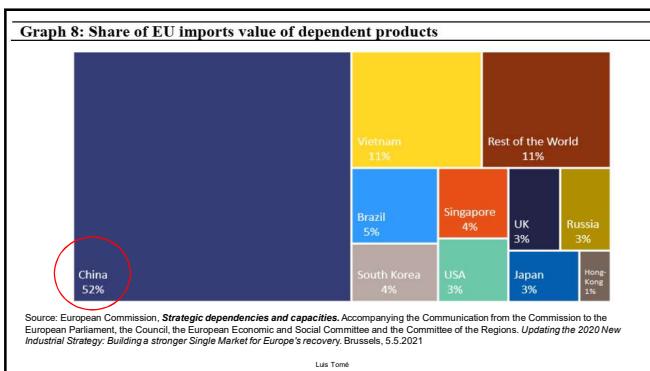
IRENA: International Renewable Energy Agency

SIEMENS ENERGY, enei, TAQA, TATA STEEL, RDF, JSW, SAILO, TotalEnergies, Berger, REPOL, equinor, TAQA

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