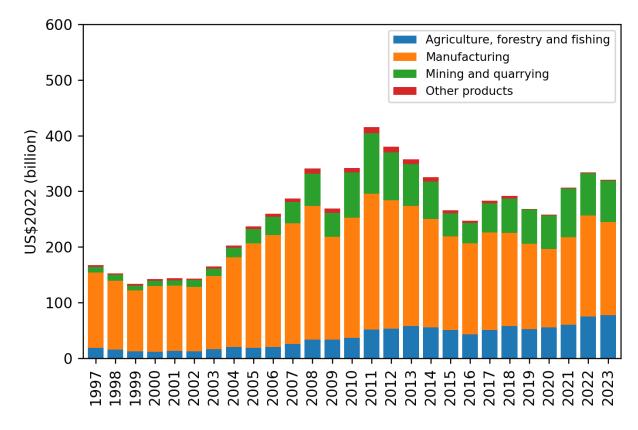
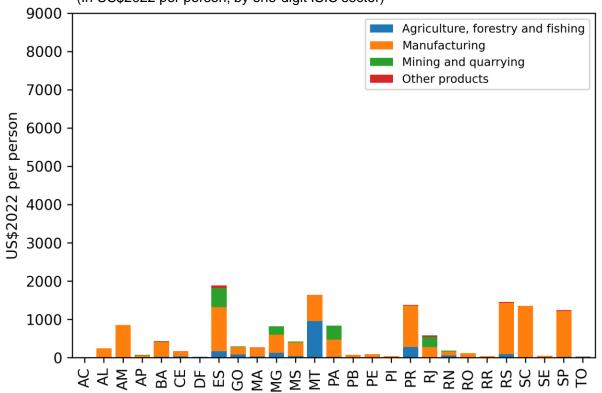
- In aggregate terms, real exports are about 3x from larger than 20 years ago but about 25% down from the 2010 peak.
- At a macro-level (1-digit industry)
  the cycle is a combination of a
  continuous expansion of agro; a
  large cycle of oil; and a volatile
  manufacturing sector



### How does this look across states?

Average levels of exports increased for most states...

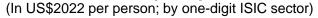
Brazilian States: Exports per Person, 2002 (In US\$2022 per person; by one-digit ISIC sector)

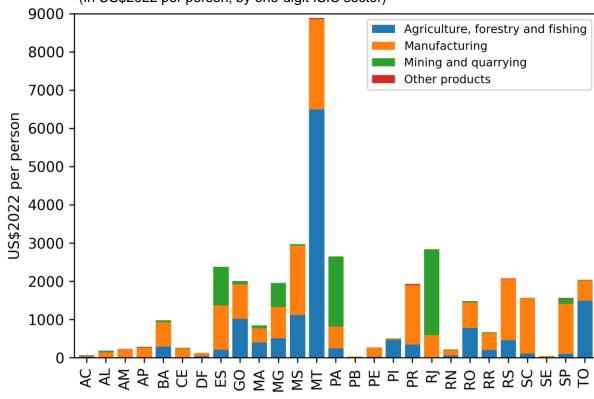


Sources: Own calculations with MDIC, IBGE and Fred data.

...and while the common story about agriculture does matter, there are some complementarieties between agriculture and manufacturing at play...

**Brazilian States: Exports per Person, 2022** 



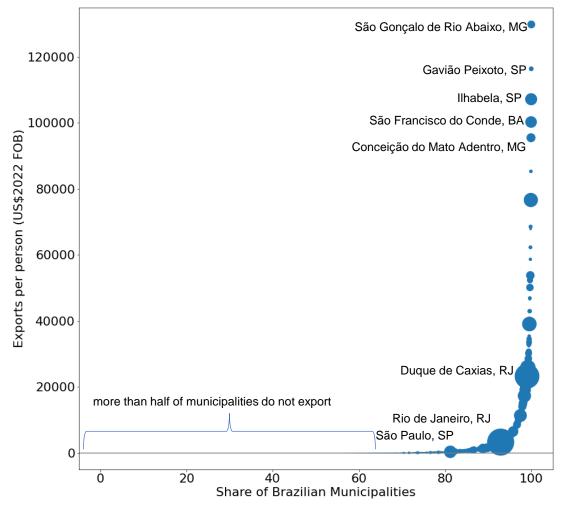


## Local exposure to exports

- More than half of Brazilian municipalities did not export in 2022
- Among the top 20 largest cities in Brazil, only Rio de Janeiro-RJ (\$3,303), Curitiba-PR (\$1,367), Guarulhos-SP (\$1,591), and São Luís-MA (\$1,838) have per capita exports larger than \$1,000.
- However, some smaller municipalities have very high exposure to exports.

#### **Brazilian Municipalities: Exports per Person, 2022**

(In US\$2022 per person; bubbles are proportional to total municipal exports)



### Local exposure to exports

São Gonçalo de Rio Abaixo, MG (Vale *Brucutu* Mining Site)

**Gavião Peixoto, SP (Embraer Production Plant)** 



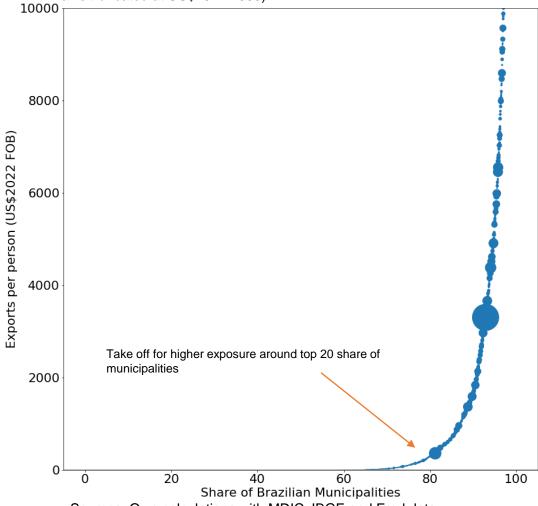


## Local exposure to exports... Zooming in

- In 2022, the turning point seems to be around percentile 80...
- ...in other words, 20 percent of Brazilian municipalities were more exposed to exports.

#### **Brazilian Municipalities: Exports per Person, 2022**

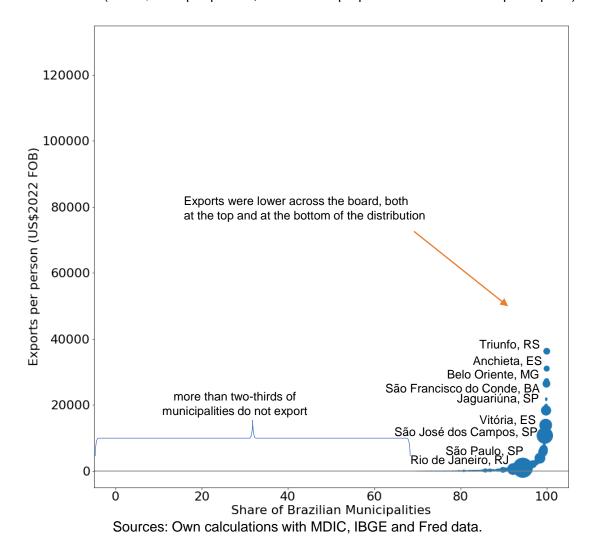
(In US\$2022 per person; bubbles are proportional to total municipal exports axis truncated at US\$2022 1000)



# Going back 20 years, total exposure is lower and the take off threshold was higher

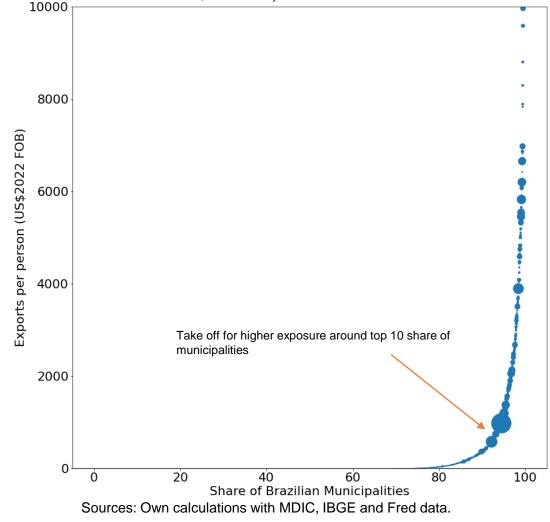
#### Brazilian Municipalities: Exports per Person, 2002

(In US\$2022 per person; bubbles are proportional to total municipal exports)

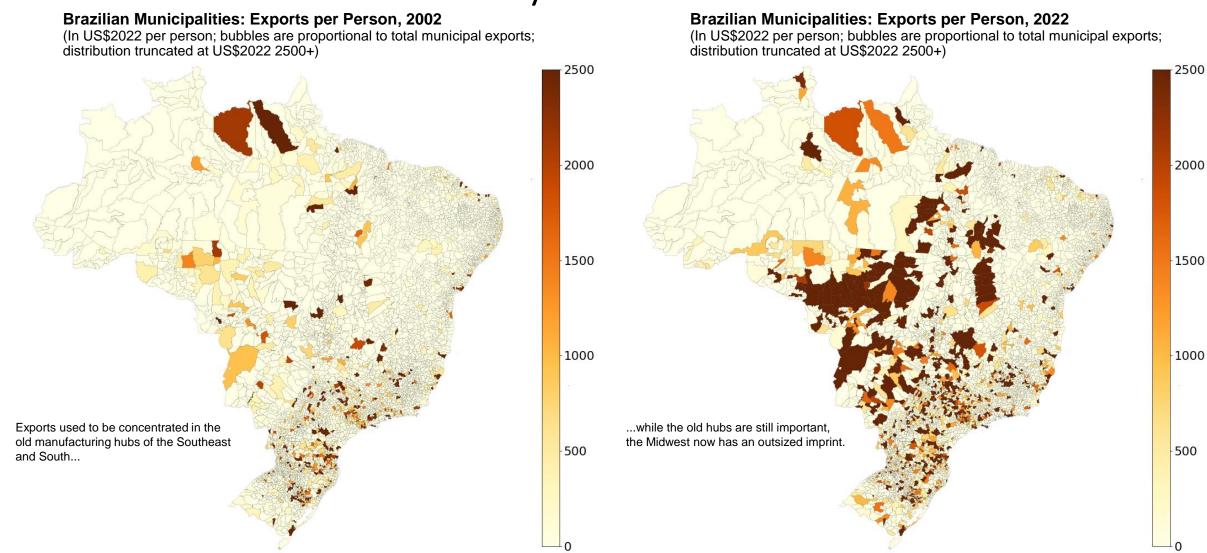


#### **Brazilian Municipalities: Exports per Person, 2002**

(In US\$2022 per person; bubbles are proportional to total municipal exports; axis truncated at US\$2022 1000)



### Looking at the distribution over space, one can see the takeoff of the countryside



Sources: Own calculations with MDIC, IBGE and Fred data.