



### A robust survey sample with regard tonnage and geographic scope.

54%

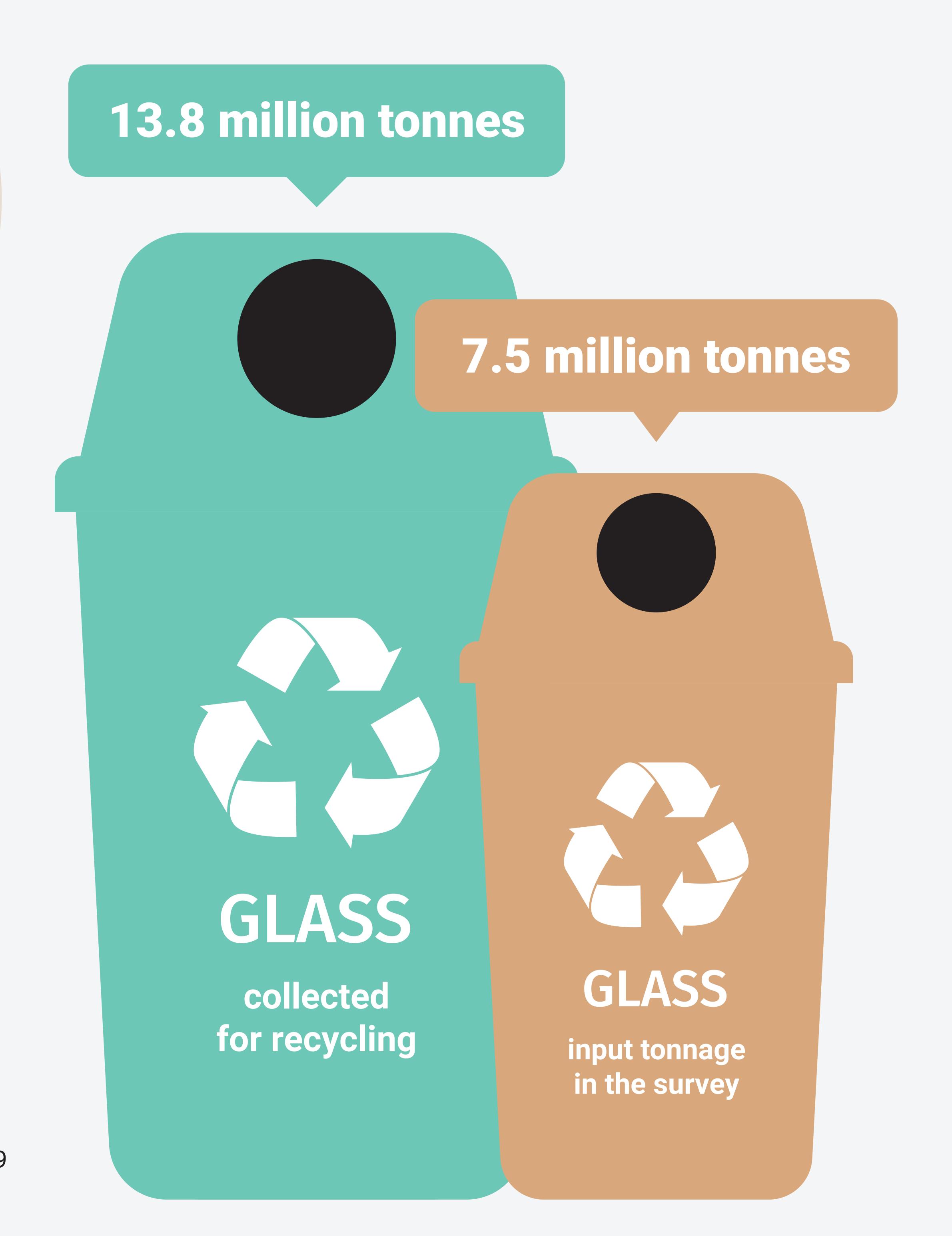
The survey represents 54% of the total available glass collected for recycling in EU+Norway+UK in 2019.

Total glass collected for recycling in EU + UK + Norway\*

Total input tonnage in survey\*\*

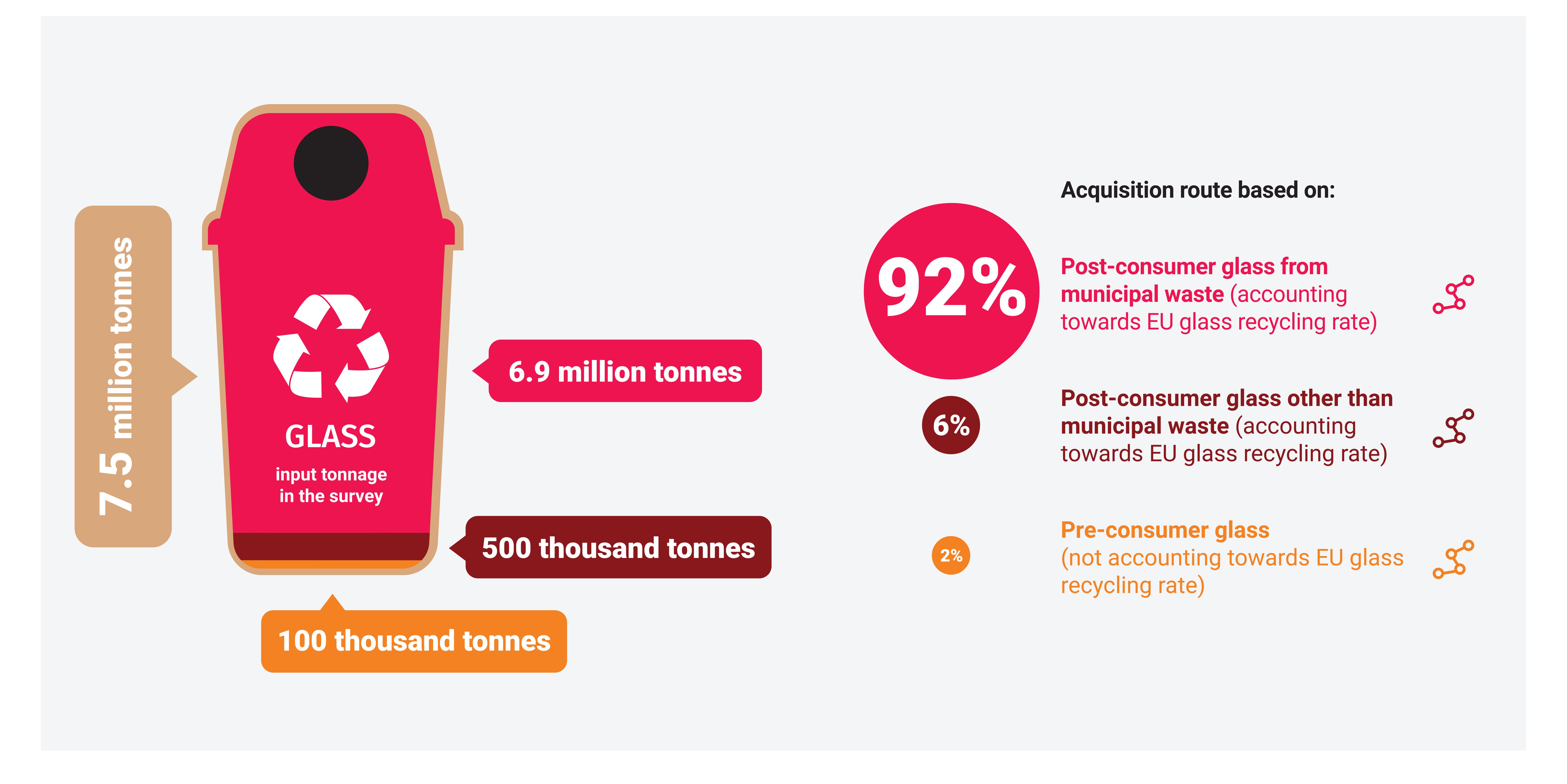
\* based on 2019 Close the Glass Loop data, which is consistent with Eurostat data for 2019

\*\* based on survey results, for 2019 data

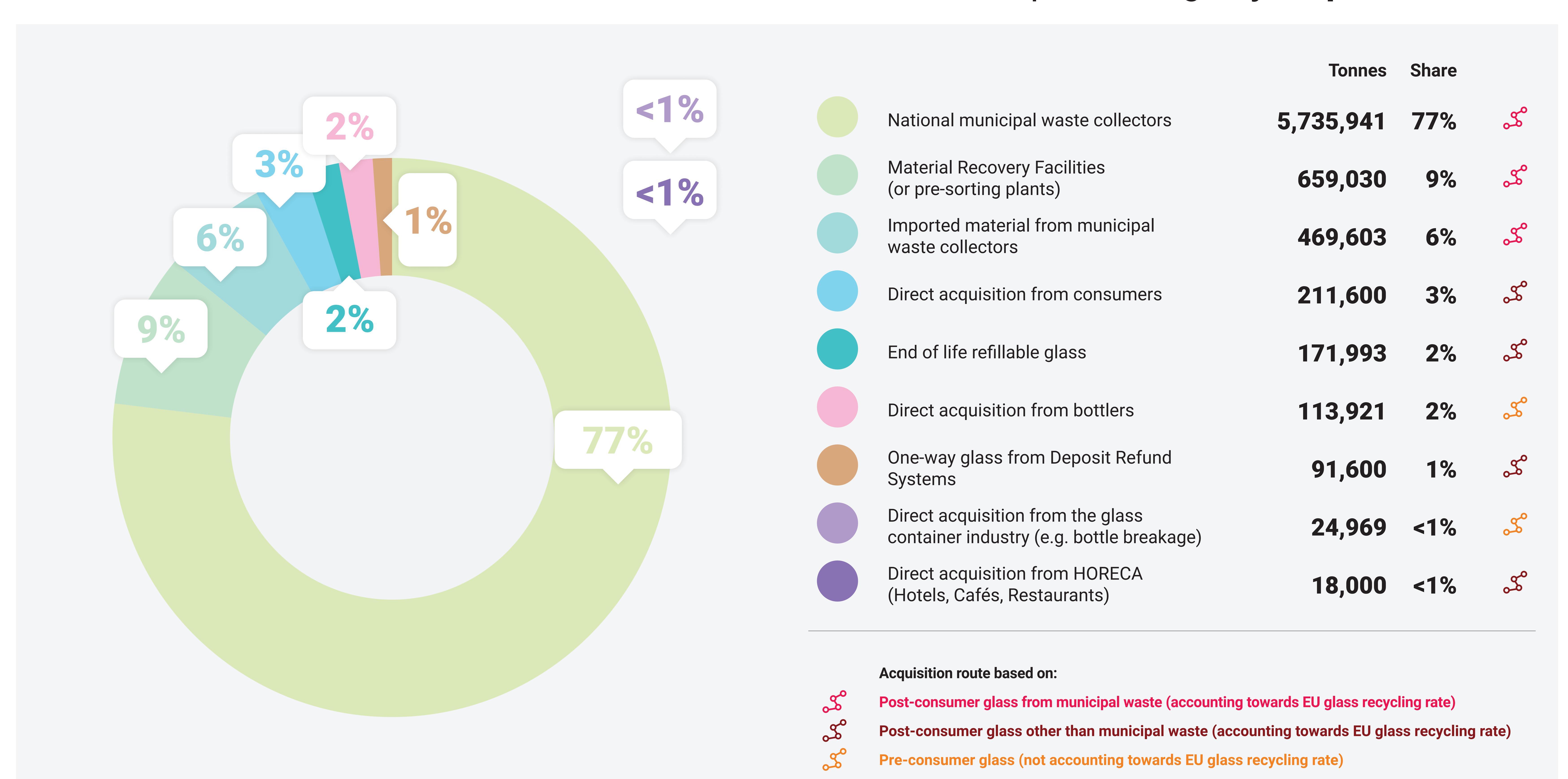




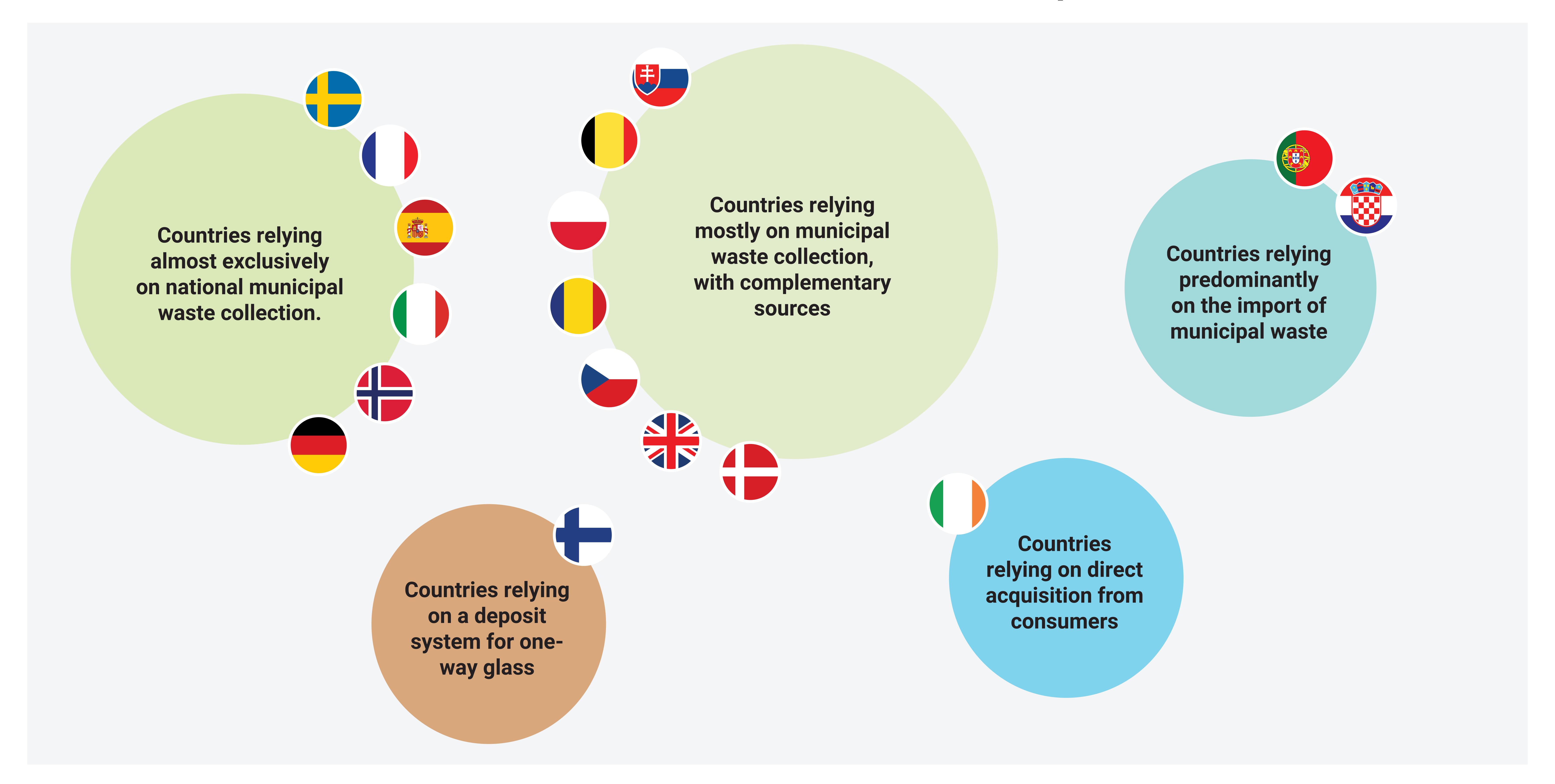
Distribution of input tonnage by acquisition route category: a massive reliance on municipal waste.



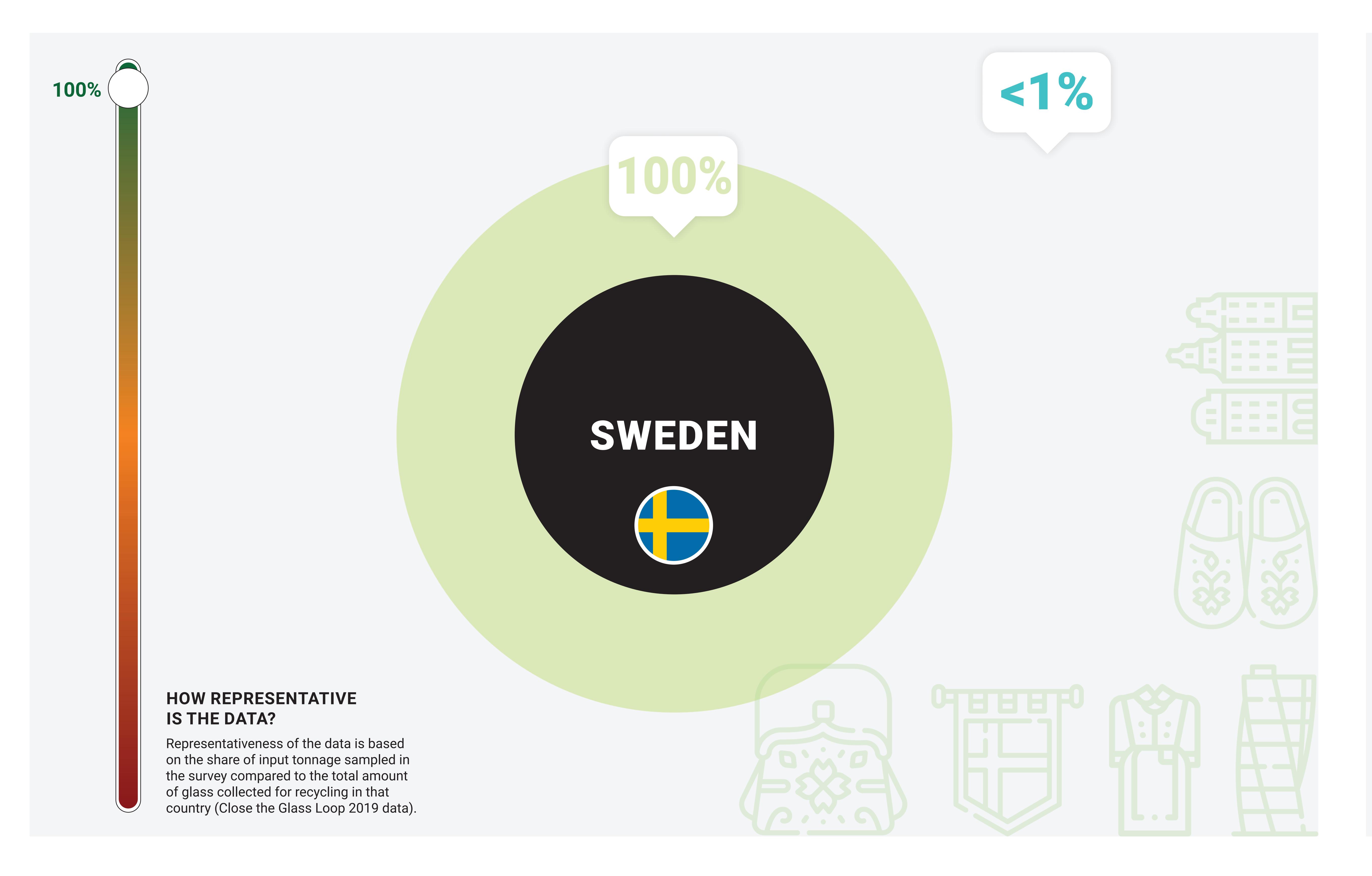
### Detailed distribution of input tonnage by acquisition route.



### The situation is quite diverse across countries.

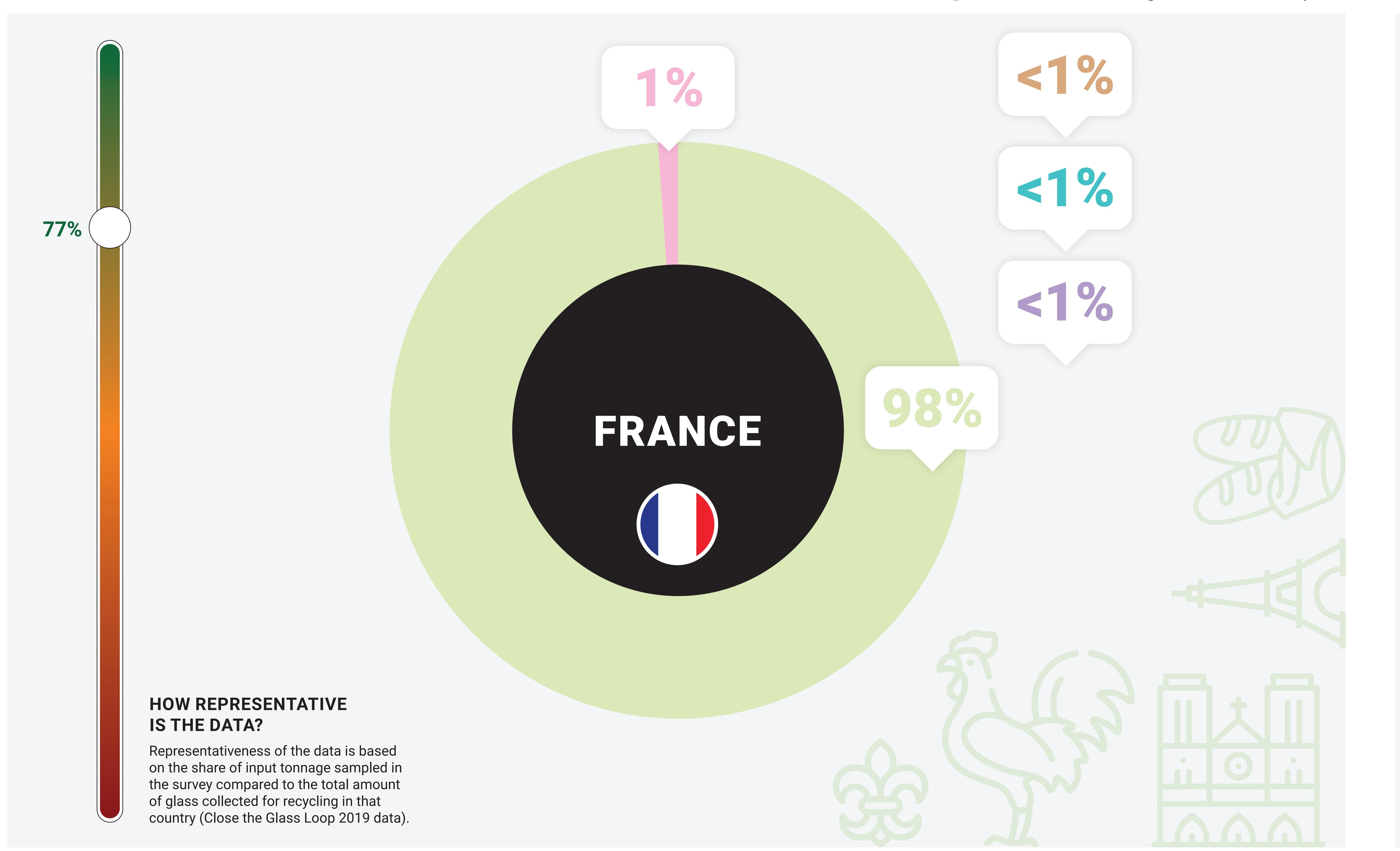


### Countries relying almost exclusively on national municipal waste collection. Sweden – a recycling system operating exclusively with national municipal waste collectors.



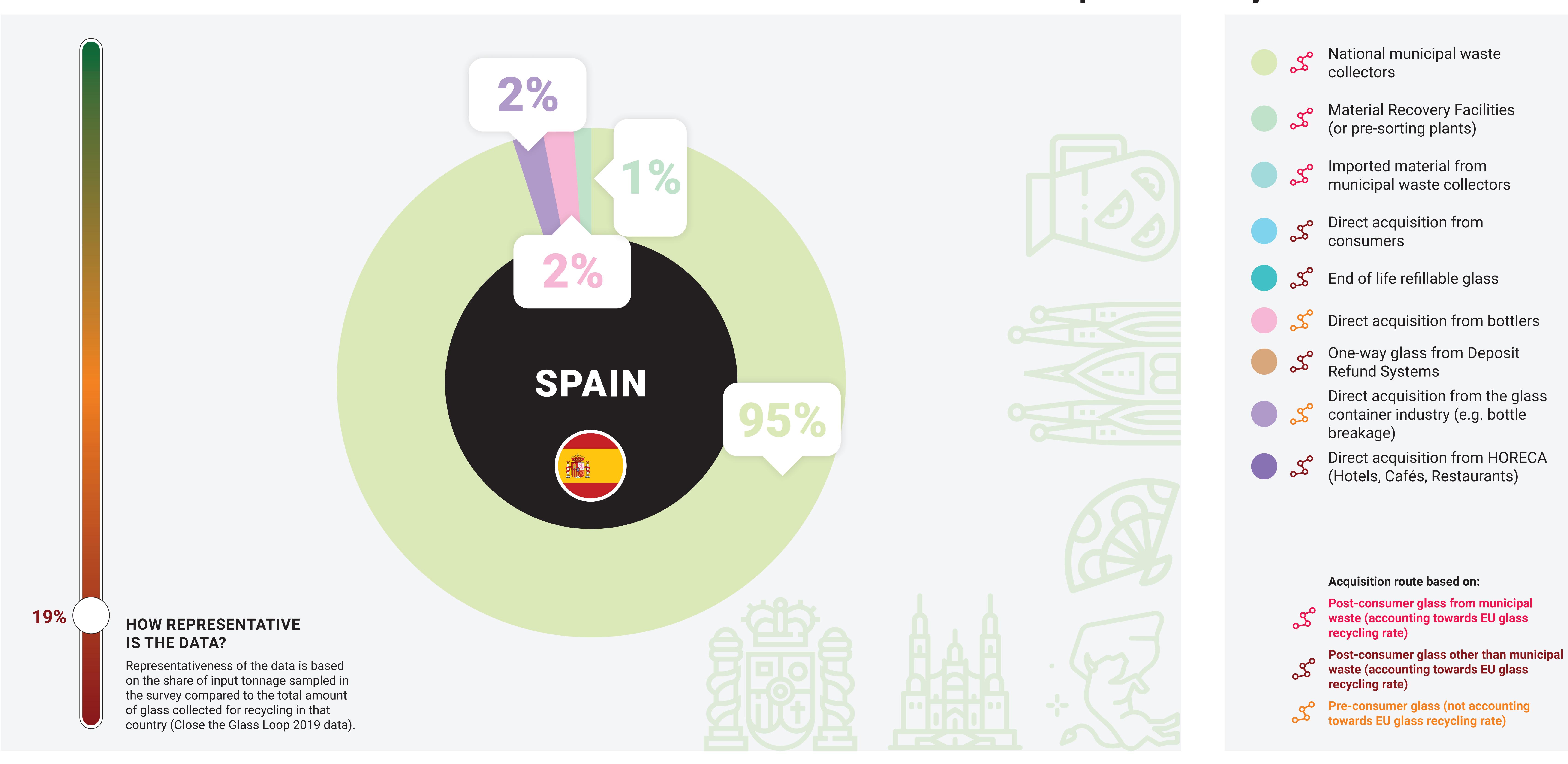


France – a recycling system operating almost exclusively with national municipal waste collectors, and complemented by several (but insignificant) other sources.

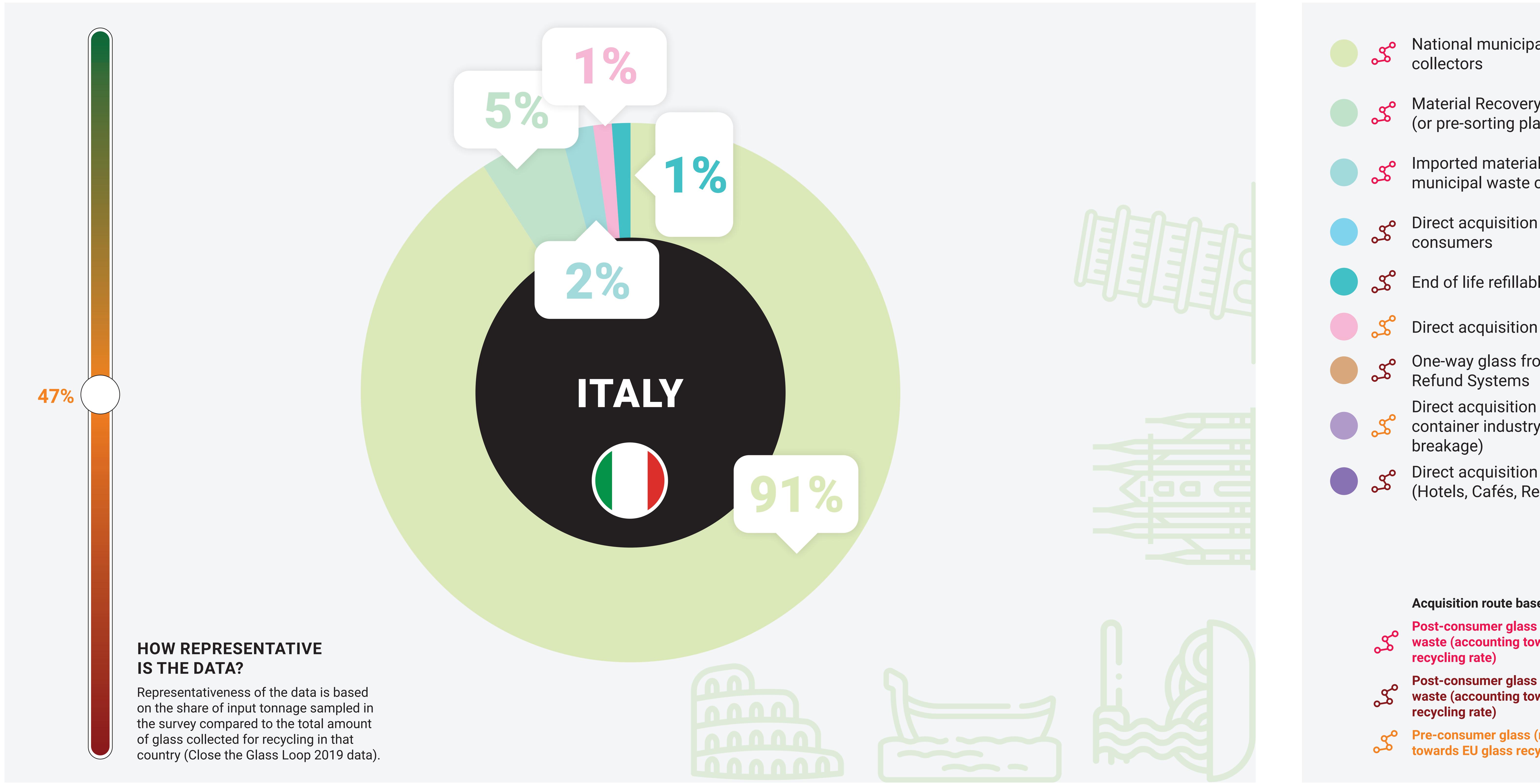




### Spain – a recycling system operating almost exclusively with national municipal waste collectors and complemented by several minor sources.

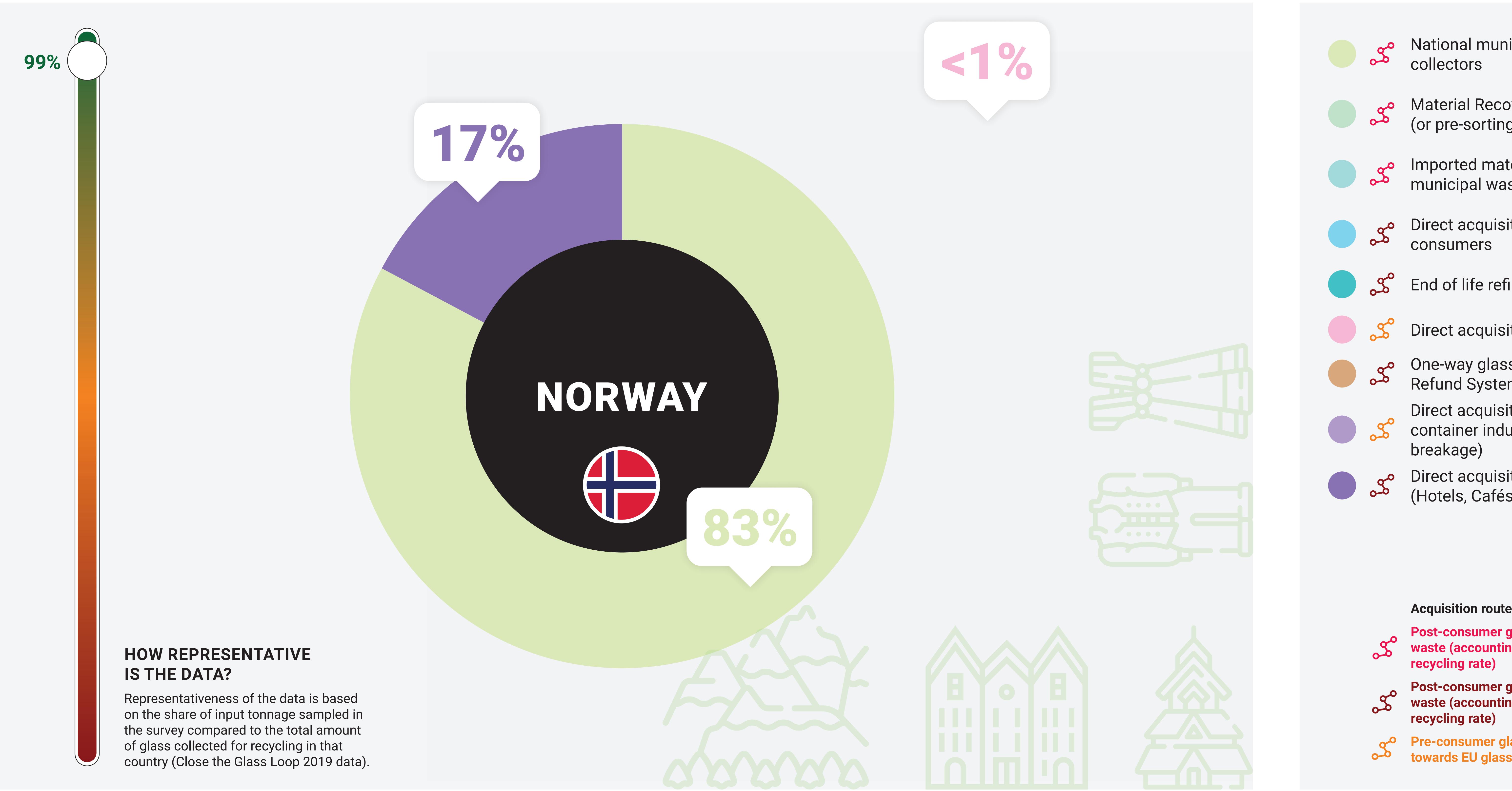


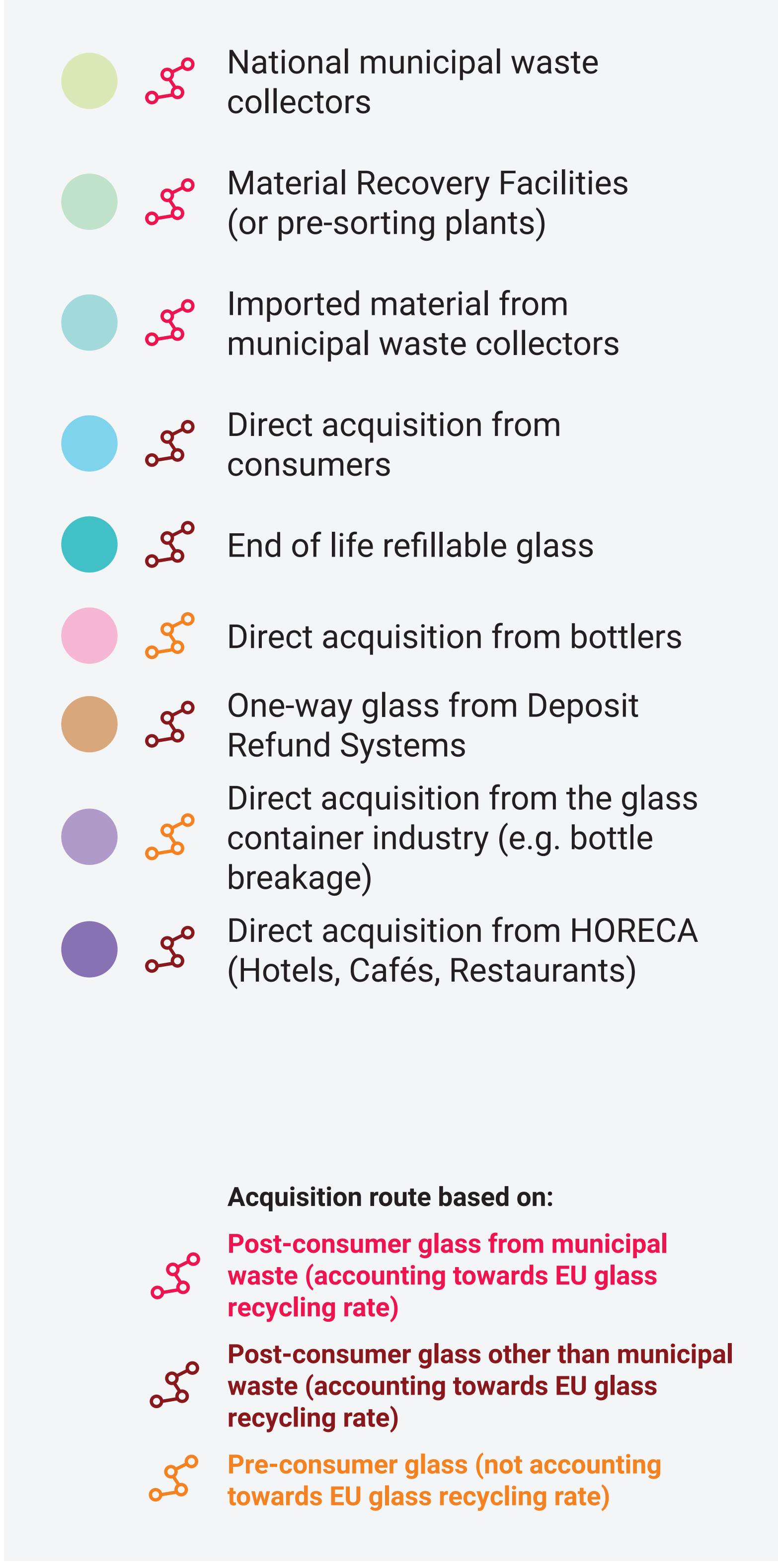
Italy - a recycling system operating almost exclusively with national municipal waste collectors, complemented for a small fraction by material from pre-sorting plants.



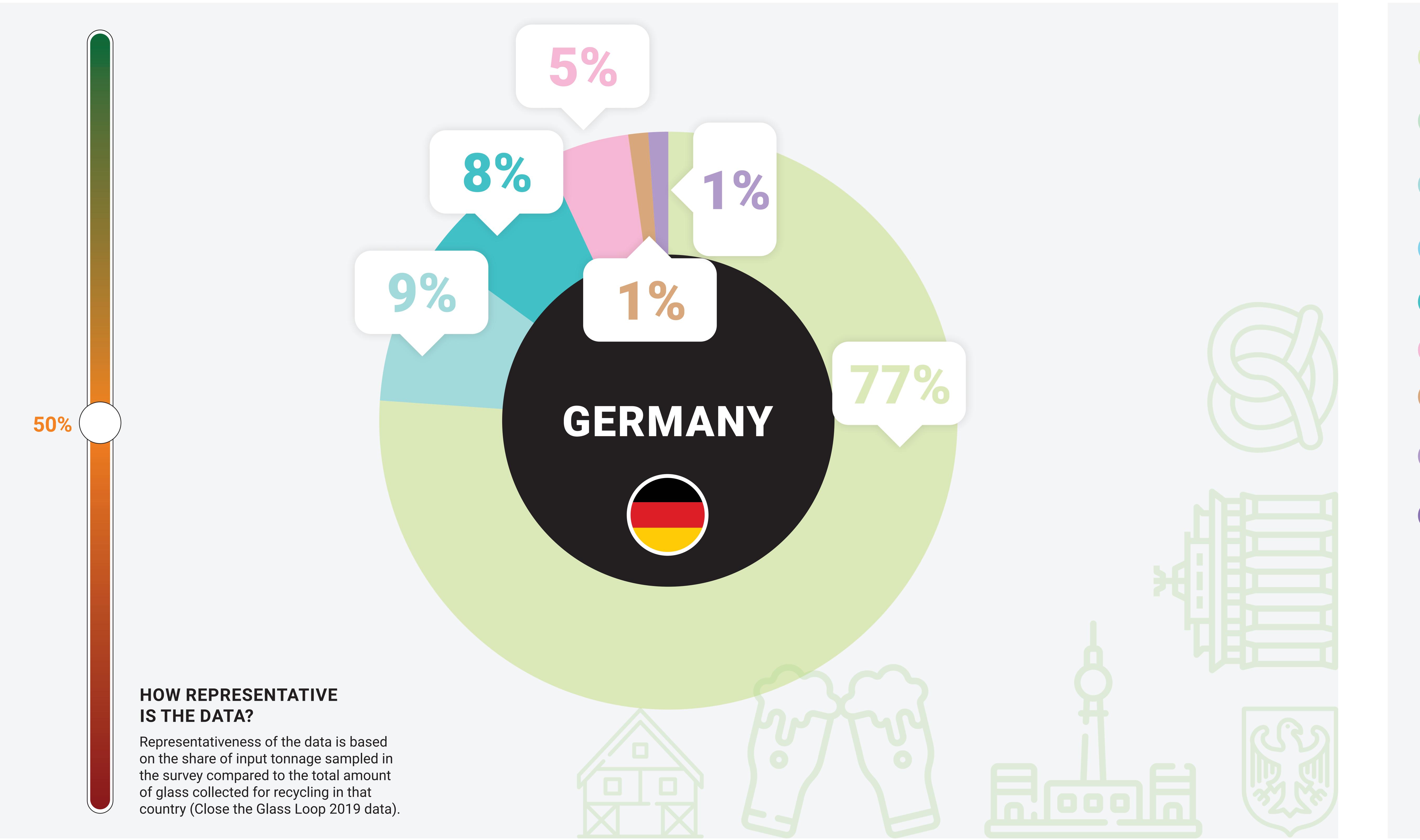


### Norway – the only national recycling system survey that complements national municipal waste collection with direct acquisition from the HORECA channel.





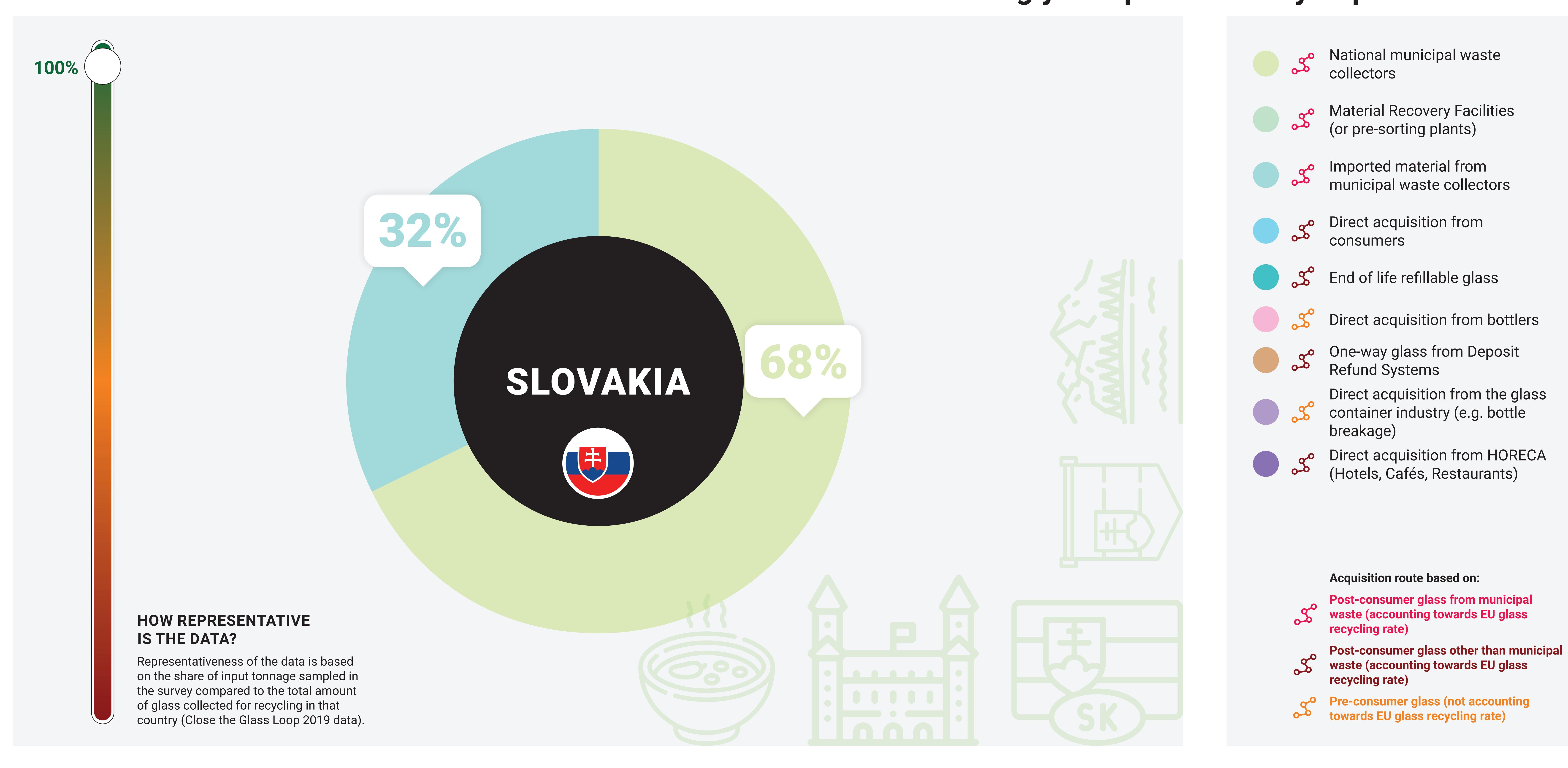
Germany – a recycling system complementing national municipal waste collection with several significant other sources including imported materials, end-of-life refillables and direct acquisition from bottlers.





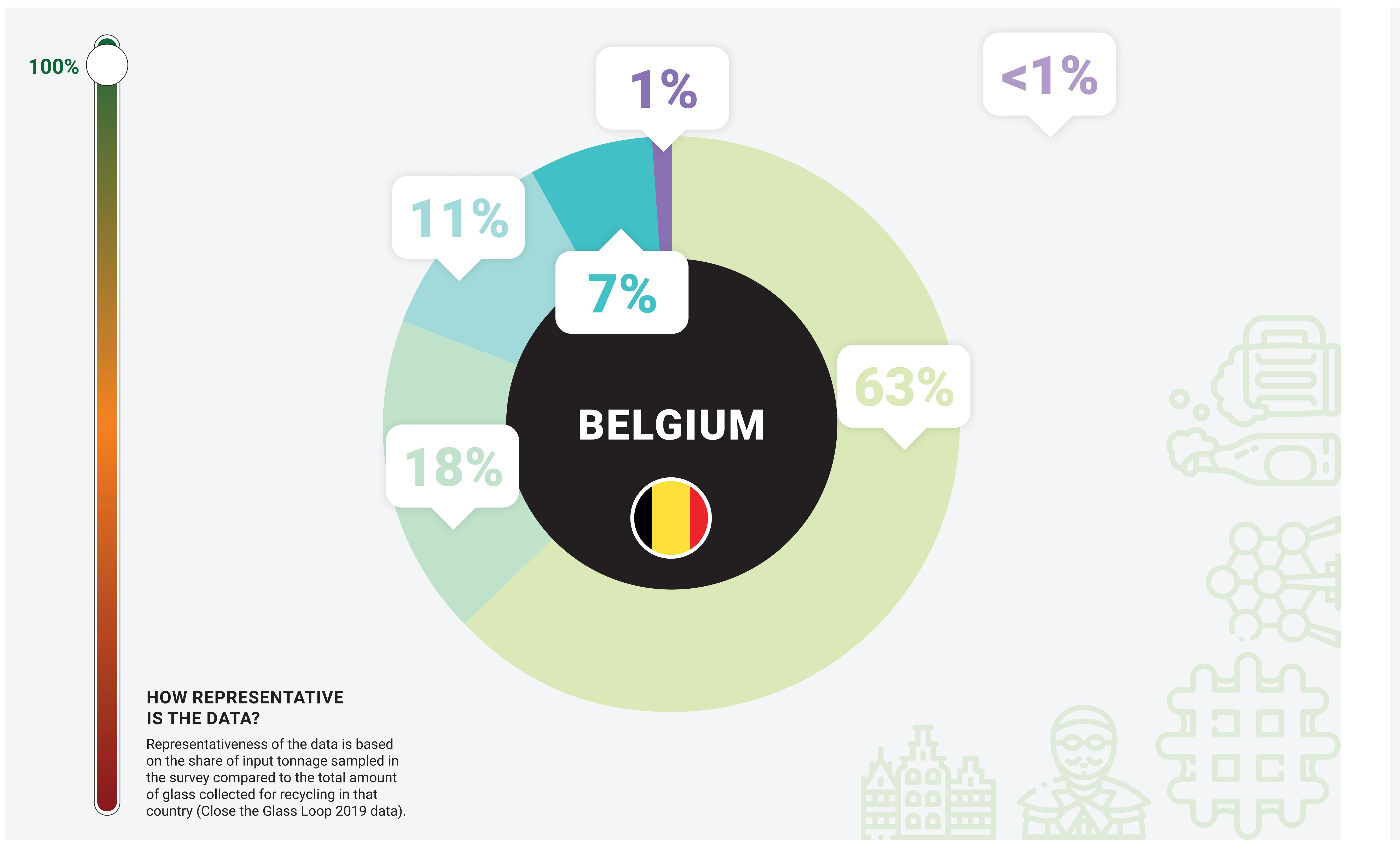
Countries relying mostly on municipal waste collection, with complementary sources.

Slovakia – a recycling system mostly based on national municipal waste collection, but strongly complemented by imported materials.



Countries relying mostly on municipal waste collection, with complementary sources.

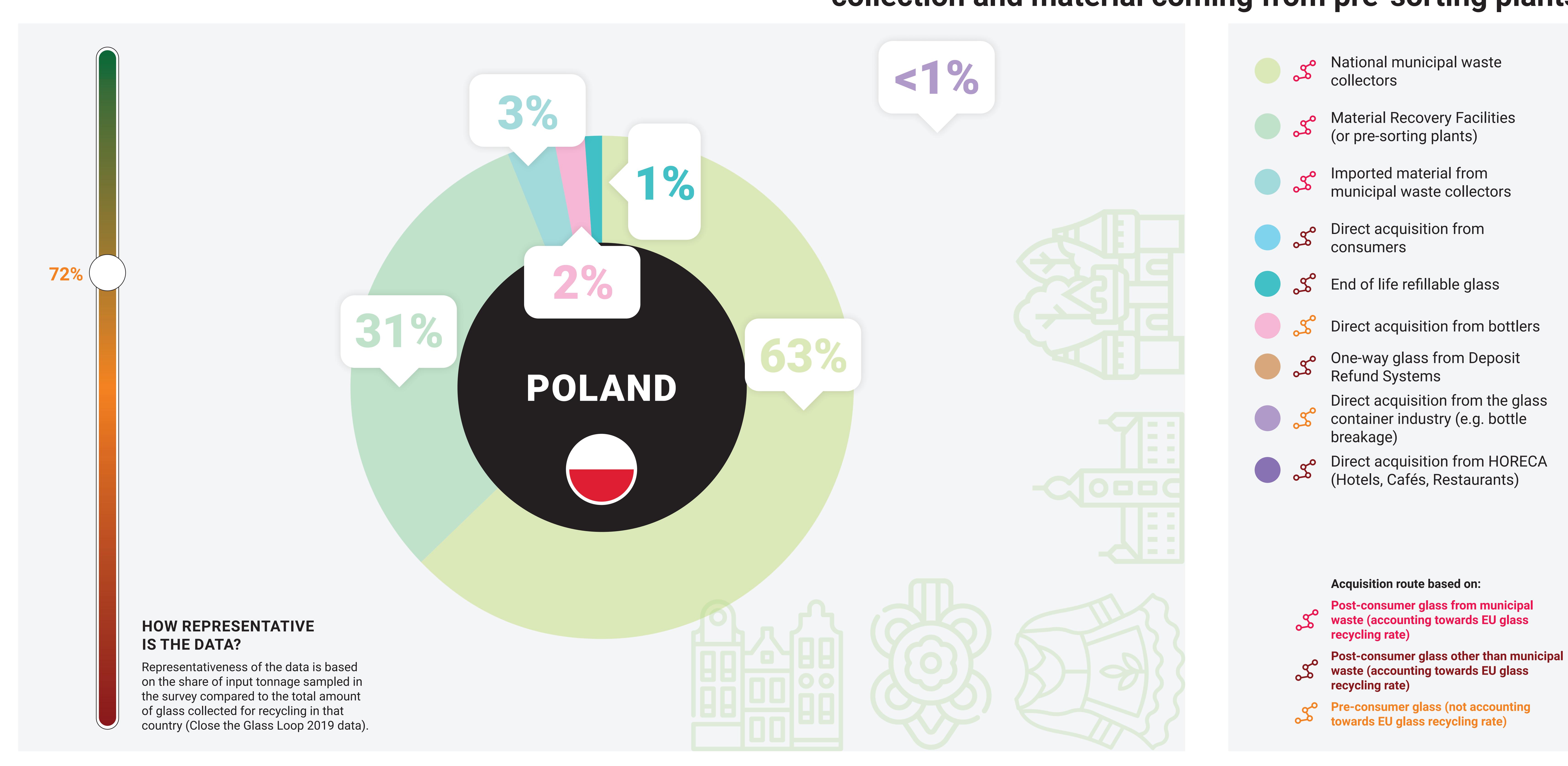
Belgium – a recycling system complementing national municipal waste collection with several significant other sources including material from pre-sorting plants, imports and end-of-life refillable glass.





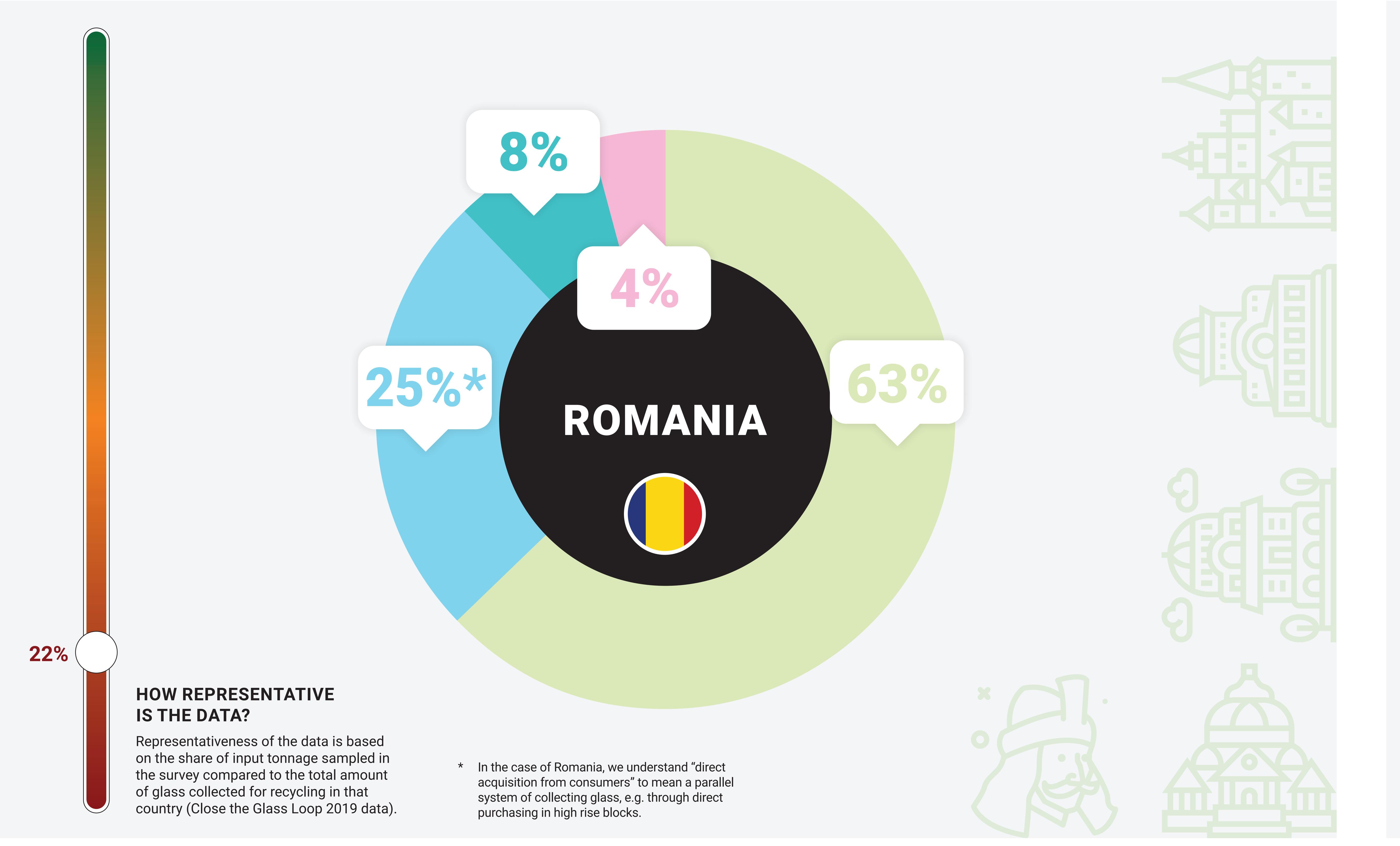
Countries relying mostly on municipal waste collection, with complementary sources.

Poland – a recycling system mostly based on a combination of national municipal waste collection and material coming from pre-sorting plants.



### Countries relying mostly on municipal waste collection, with complementary sources.

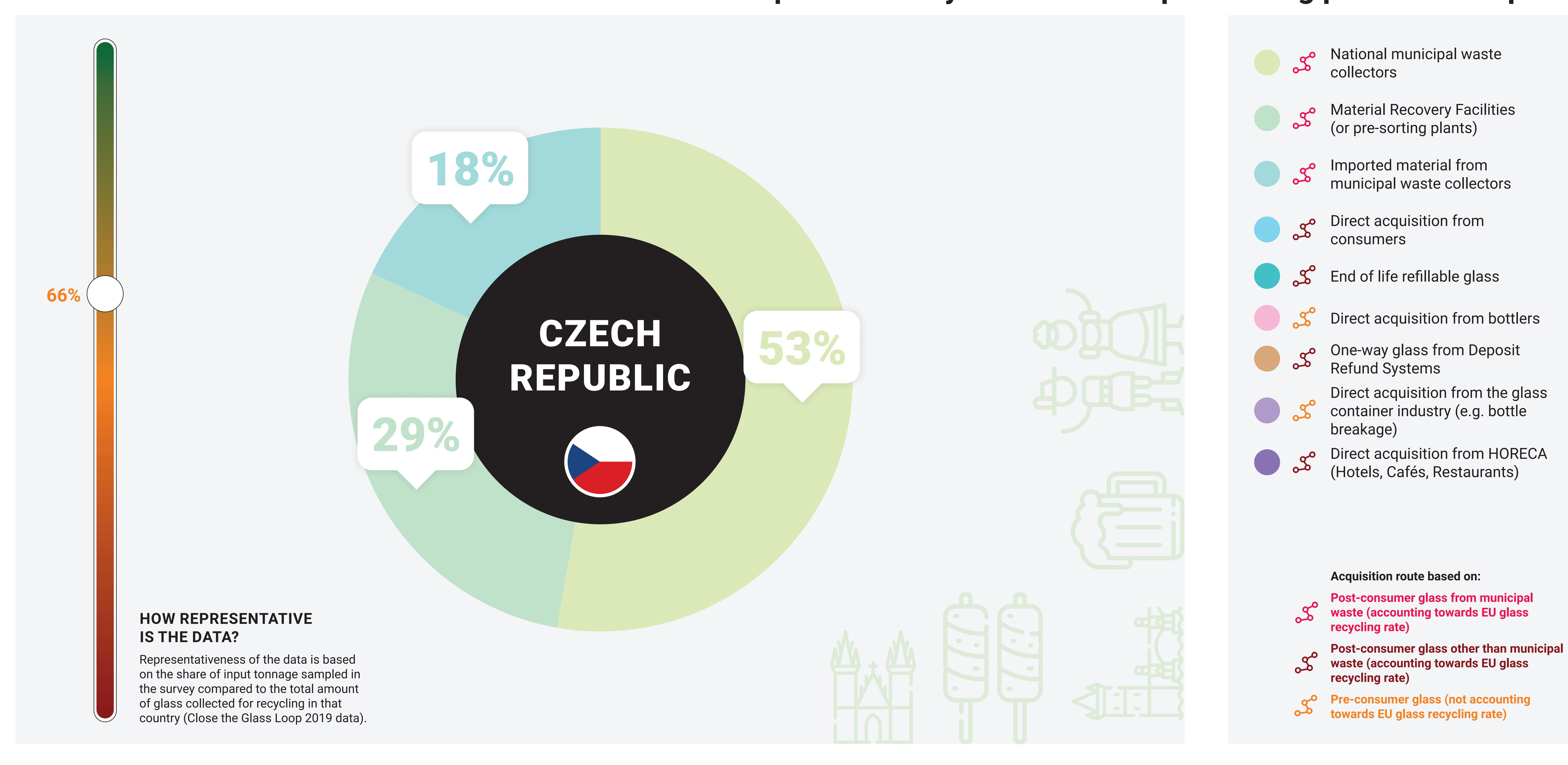
Romania – a recycling system mostly based on national municipal waste collection, but relying also significantly on direct acquisition from consumers and end of life refillable glass.



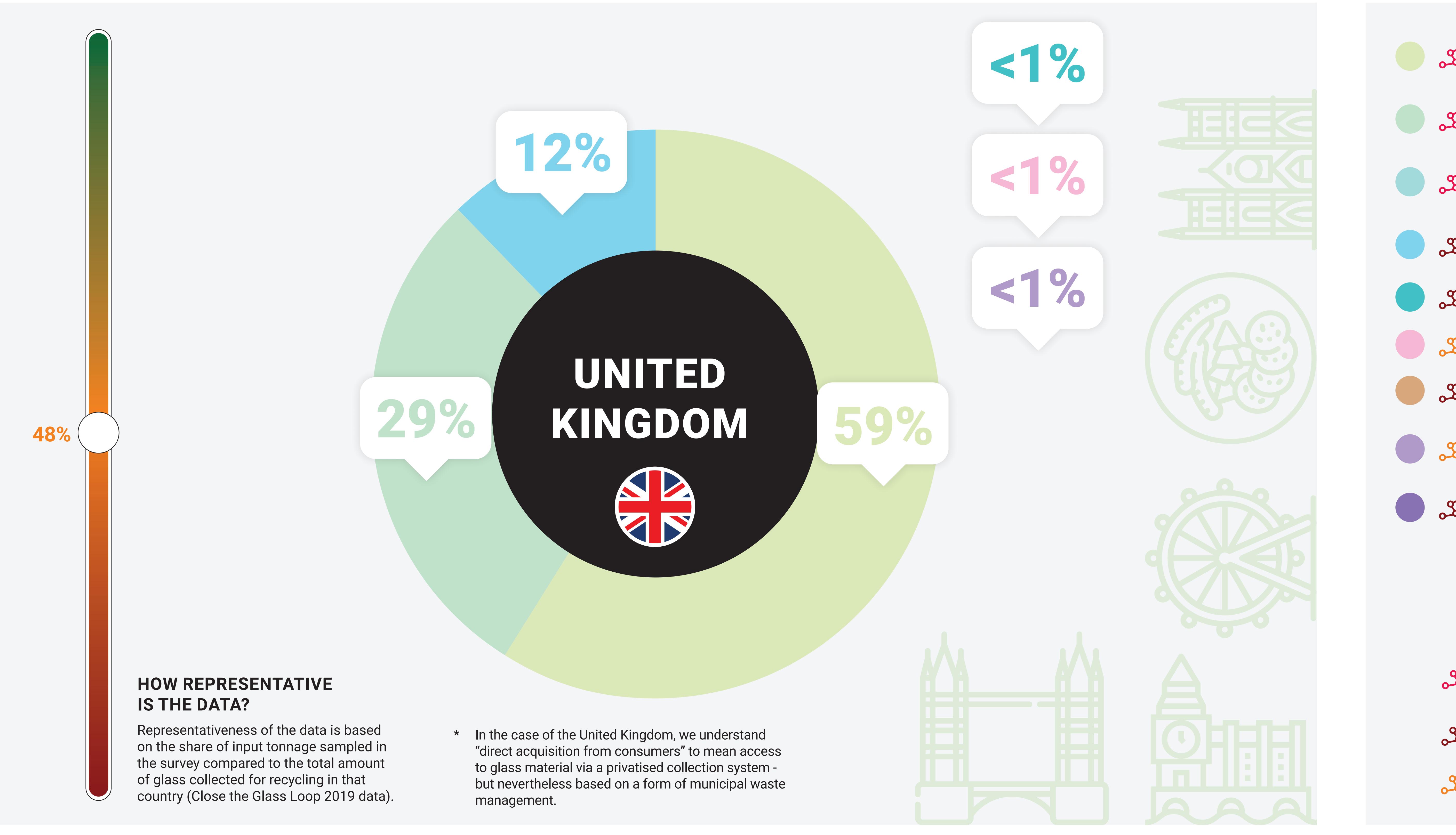
National municipal waste collectors Material Recovery Facilities (or pre-sorting plants) Imported material from municipal waste collectors Direct acquisition from End of life refillable glass Direct acquisition from bottlers One-way glass from Deposit Refund Systems Direct acquisition from the glass container industry (e.g. bottle breakage) Direct acquisition from HORECA (Hotels, Cafés, Restaurants) Acquisition route based on: Post-consumer glass from municipal waste (accounting towards EU glass recycling rate) Post-consumer glass other than municipal waste (accounting towards EU glass recycling rate) Pre-consumer glass (not accounting towards EU glass recycling rate)

Countries relying mostly on municipal waste collection, with complementary sources.

Czech Republic – a recycling system operating on municipal waste collection on national level, complemented by material from pre-sorting plants and imports.



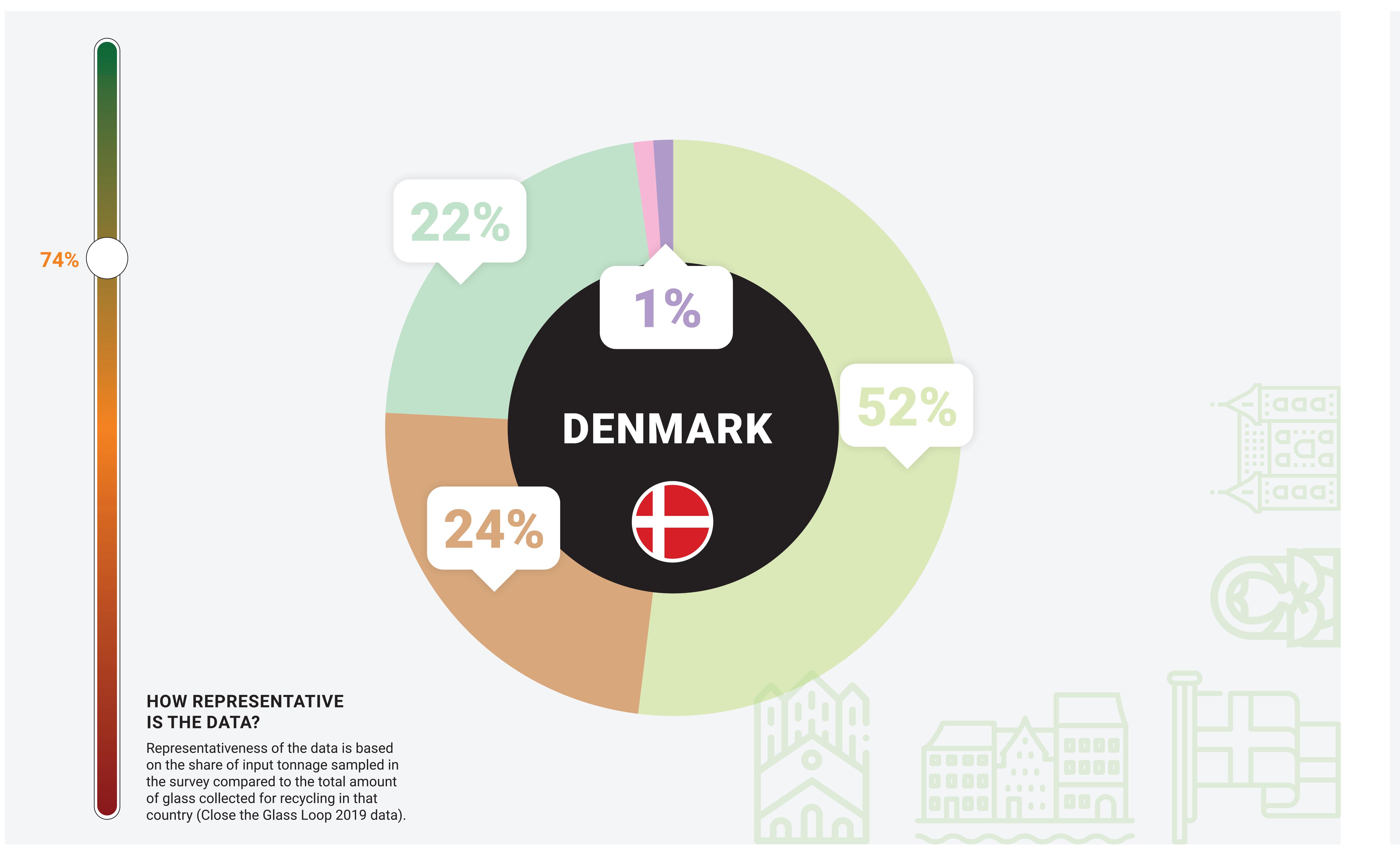
# Countries relying mostly on municipal waste collection, with complementary sources. United Kingdom – a recycling system operating mostly with national municipal waste collection and material from pre-sorting plants.



National municipal waste Material Recovery Facilities (or pre-sorting plants) Imported material from municipal waste collectors Direct acquisition from End of life refillable glass Direct acquisition from bottlers One-way glass from Deposit Refund Systems Direct acquisition from the glass container industry (e.g. bottle breakage) Direct acquisition from HORECA (Hotels, Cafés, Restaurants) Acquisition route based on: Post-consumer glass from municipal waste (accounting towards EU glass recycling rate) Post-consumer glass other than municipal waste (accounting towards EU glass recycling rate) Pre-consumer glass (not accounting towards EU glass recycling rate)

Countries relying mostly on municipal waste collection, with complementary sources.

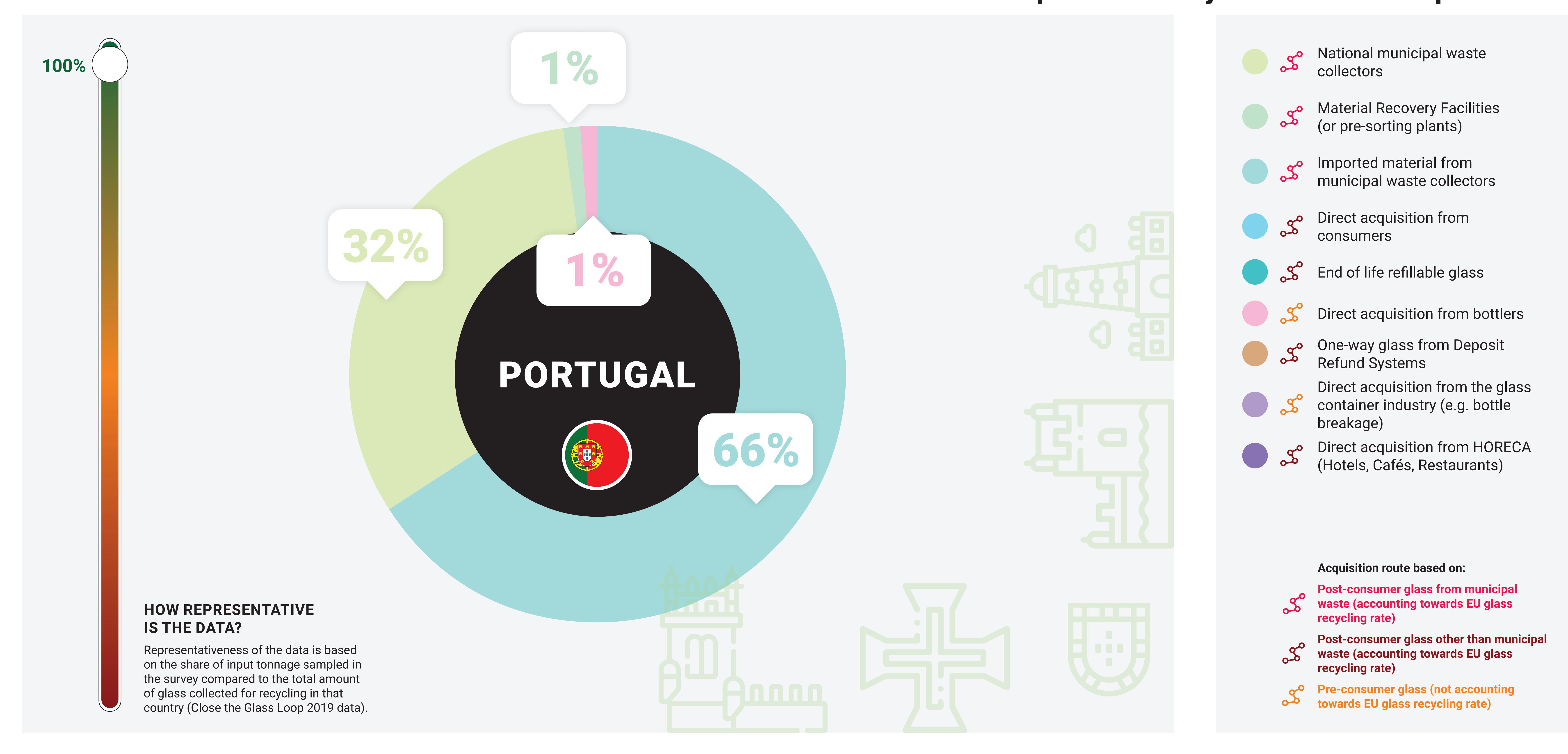
Denmark – a recycling system mostly based on municipal waste collection, complemented by glass from deposit refund systems and material from pre-sorting plants.





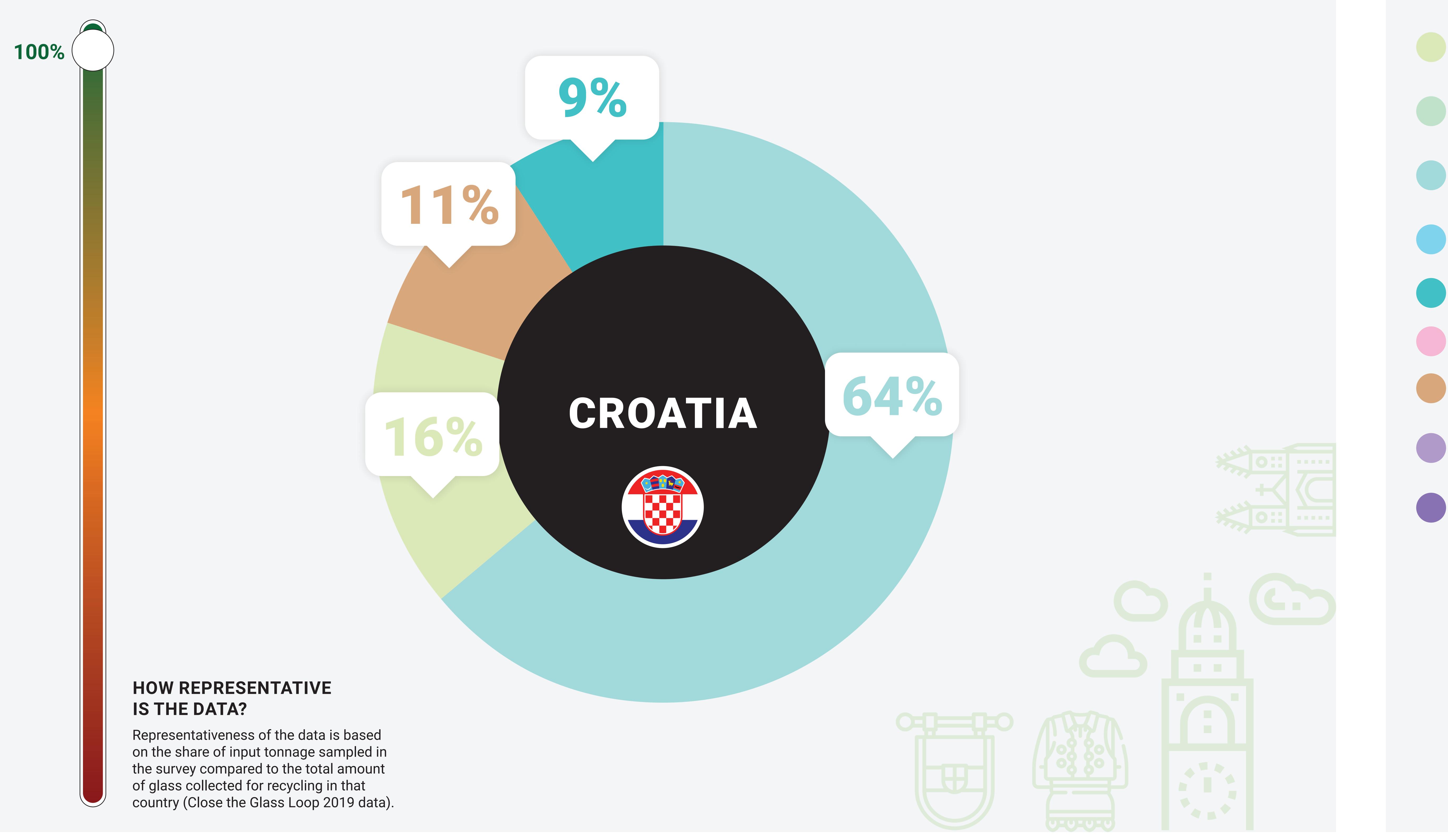
#### Countries relying predominantly on the import of municipal waste.

### Portugal – the recycling system that is most reliant on imports of municipal waste, complemented by national municipal waste.



### Countries relying predominantly on the import of municipal waste.

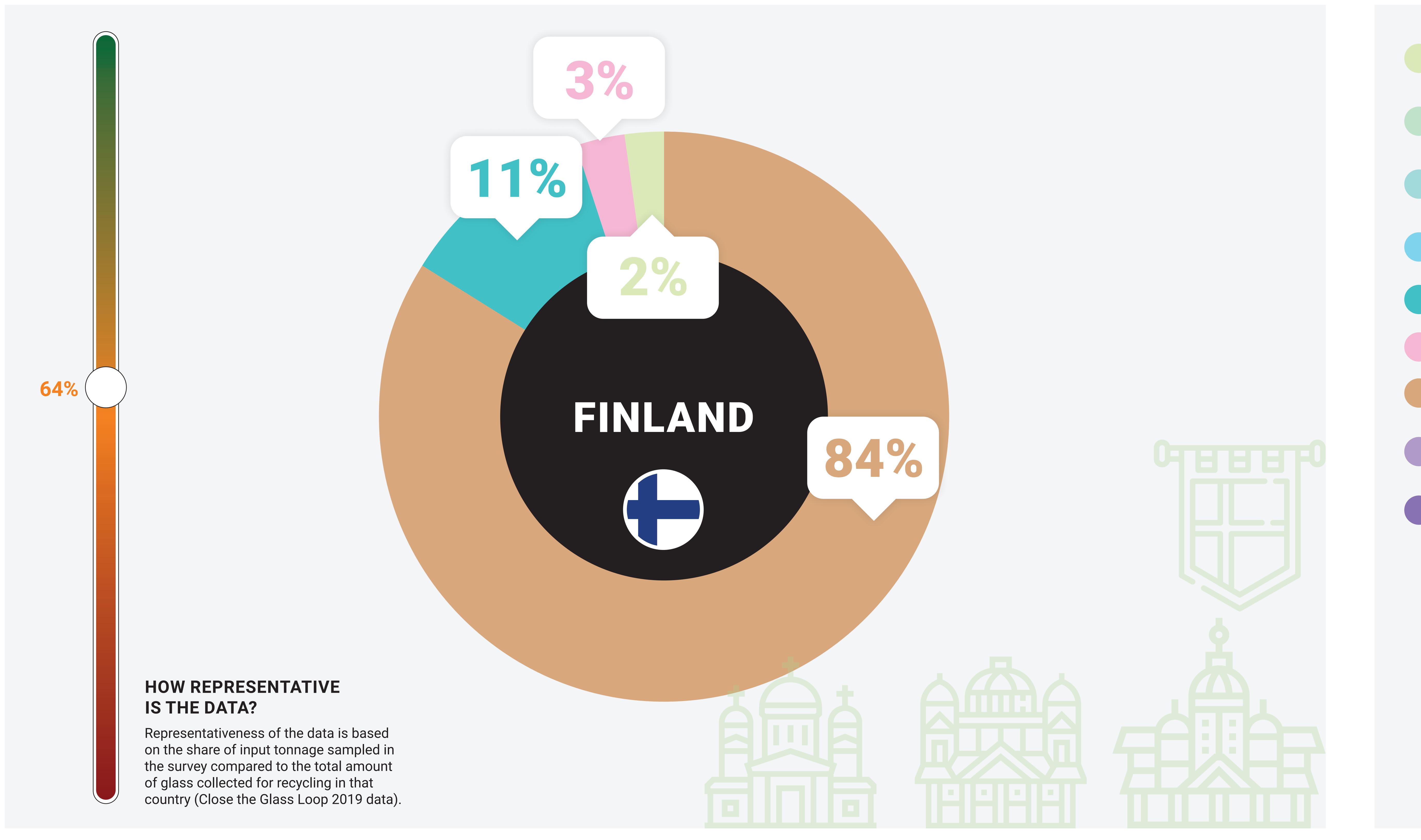
### Croatia – a recycling system mostly based on imports of municipal waste, complemented by several complementary sources.





### Countries relying on a deposit system for one-way glass.

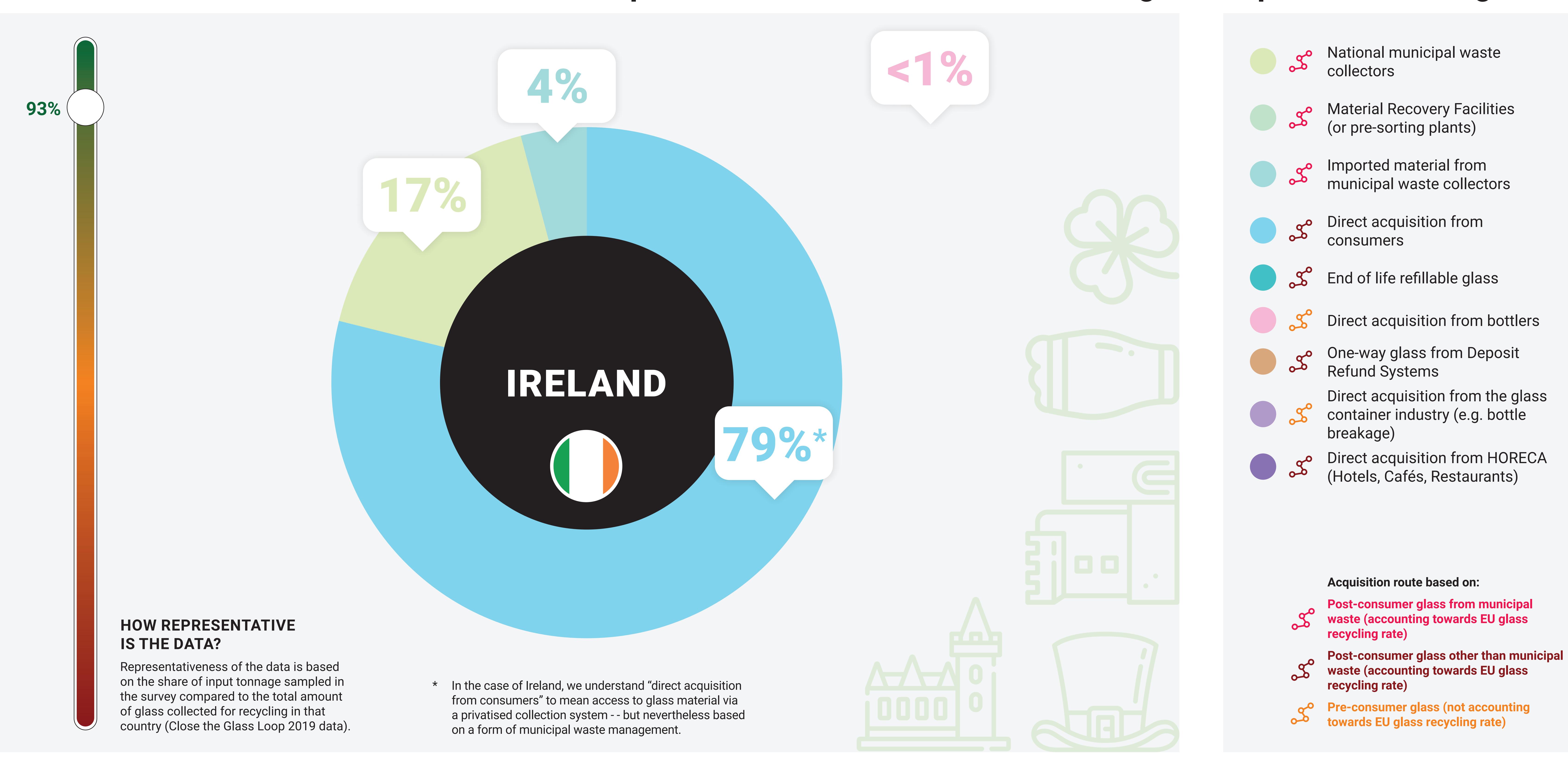
### Finland – the only recycling system where glass is predominantly sourced from a Deposit Refund System.



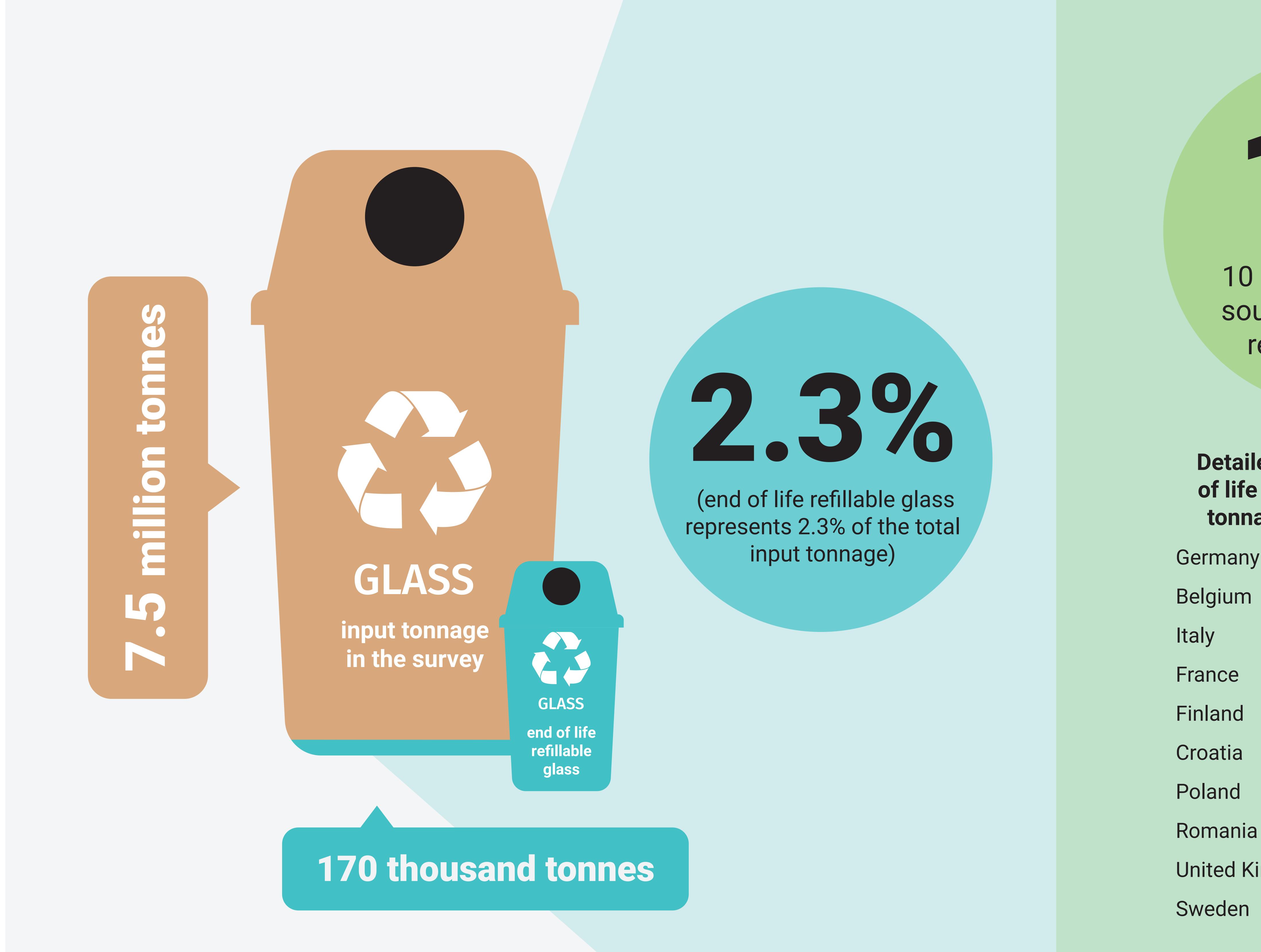


#### Countries relying on direct acquisition from consumers.

Ireland – the only recycling system relying predominantly on direct acquisition from consumers, although this reflects a privatised collection scheme handling municipal waste management.



### Refillable glass bottles also get recycled at end-of-life.



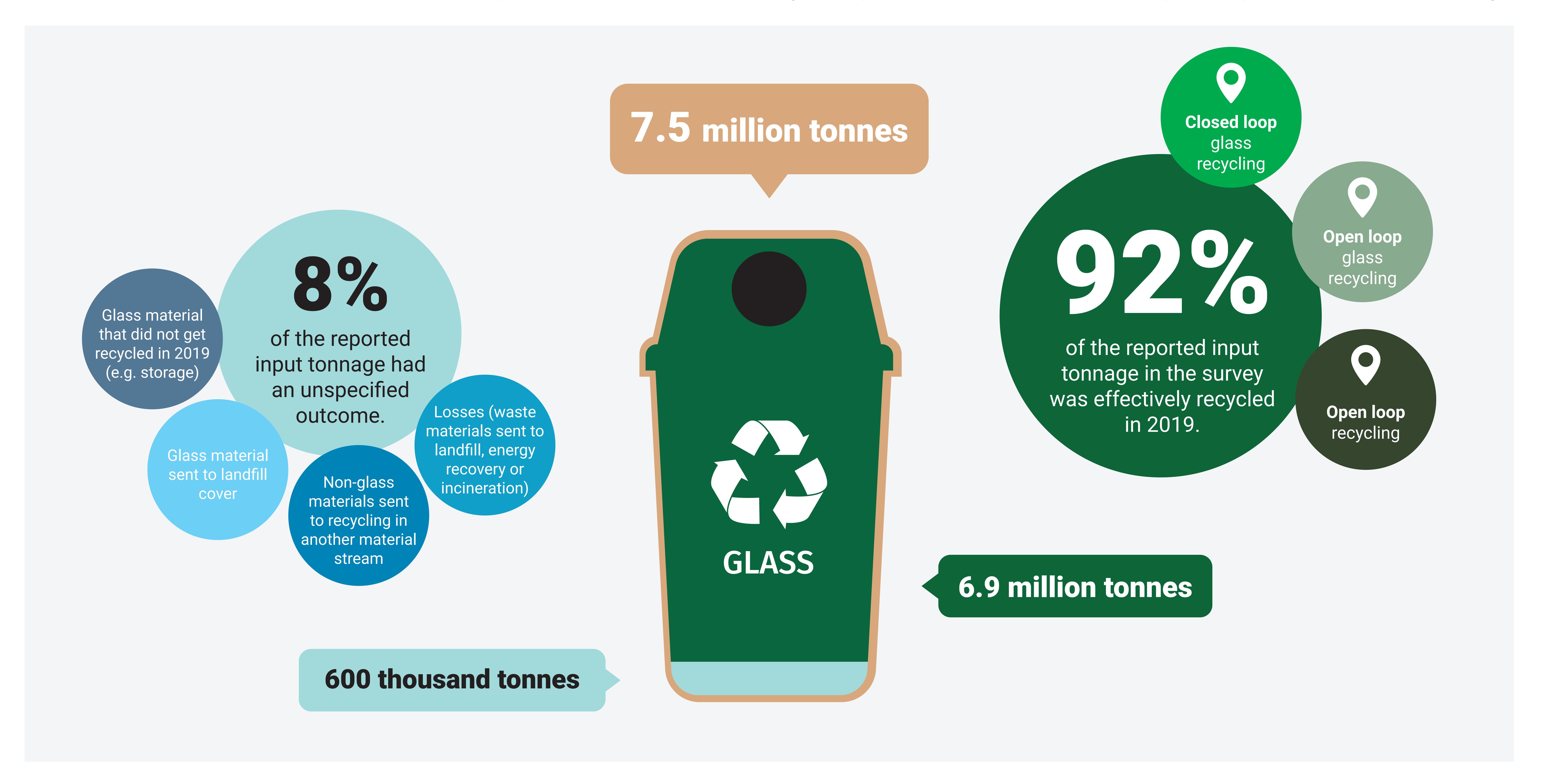
10 countries report sourcing end of life refillable glass.

Detailed share of end of life refillable glass tonnage by country

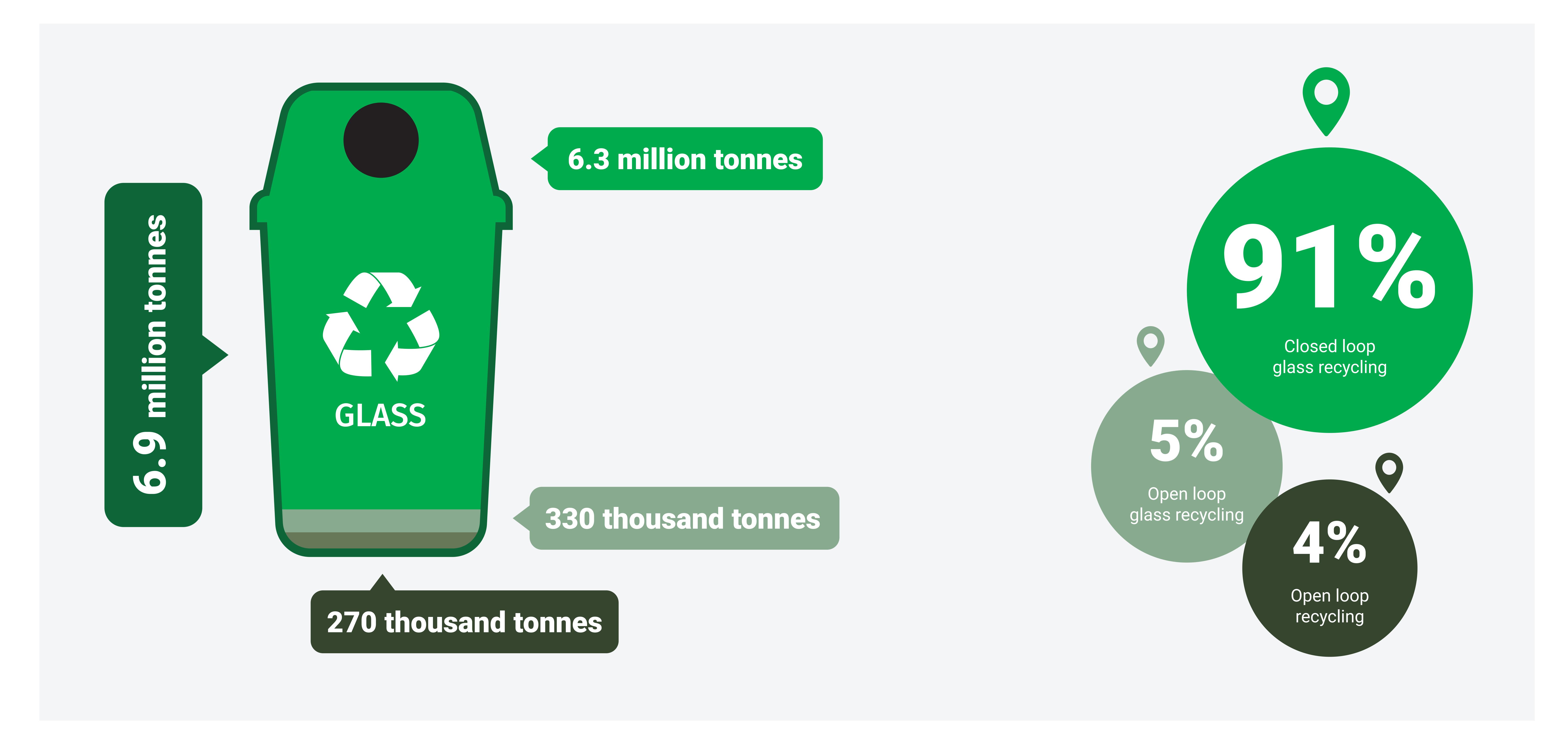
Germar	าy		58	3%
Belgiun	n		21	1%
Italy			5	5%
France				19
Finland			3	3%
Croatia			3	3%
Poland			3	3%
Roman	ia		2	2%
United	Kingd	om	1	1%
Sweder	1		<1	1%

800%

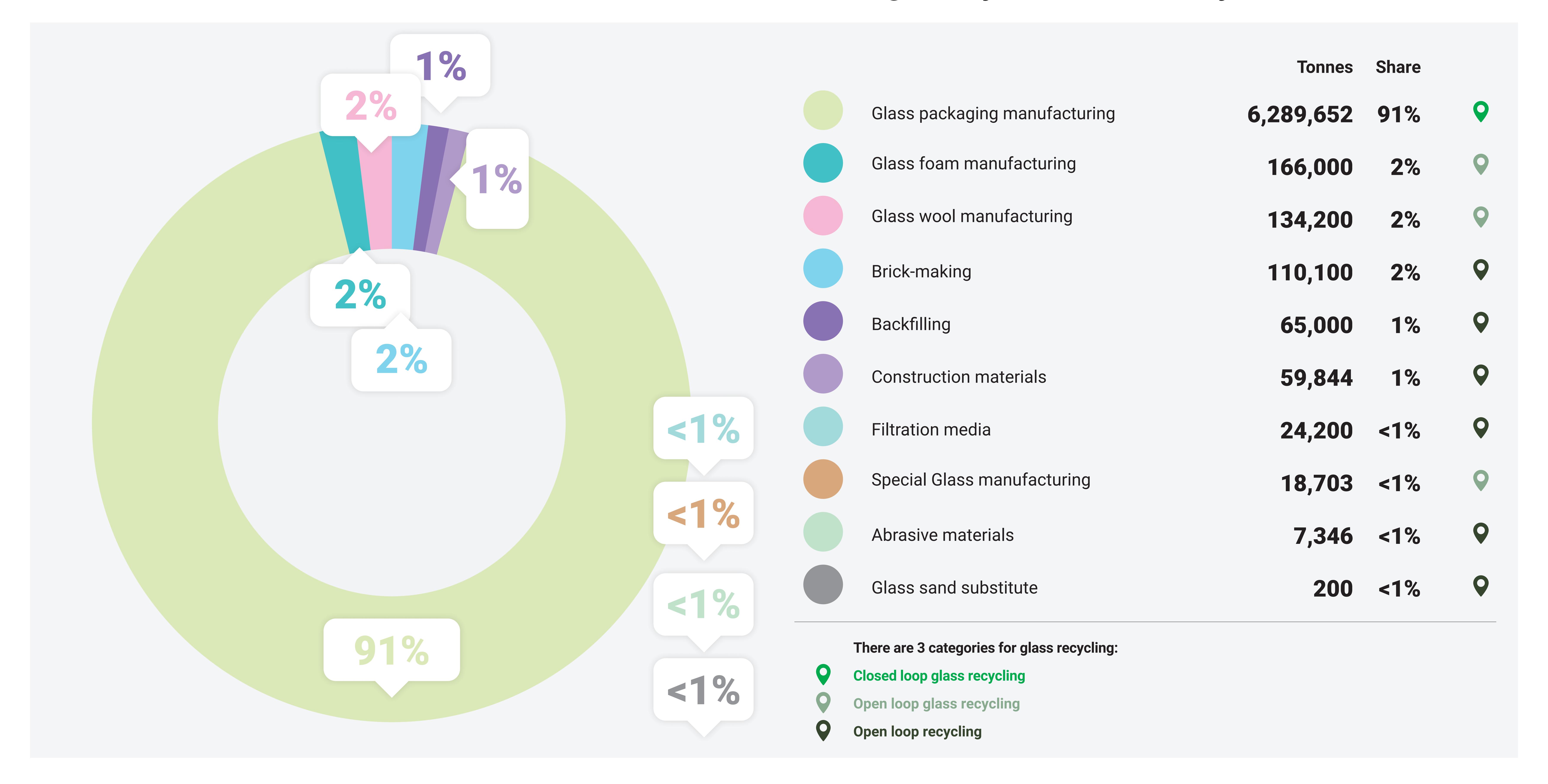
Germany and Belgium together recycle almost 80% of all post-consumer refillable glass at end-of-life. From input to output, the glass collection & recycling value chain has a high degree of traceability.



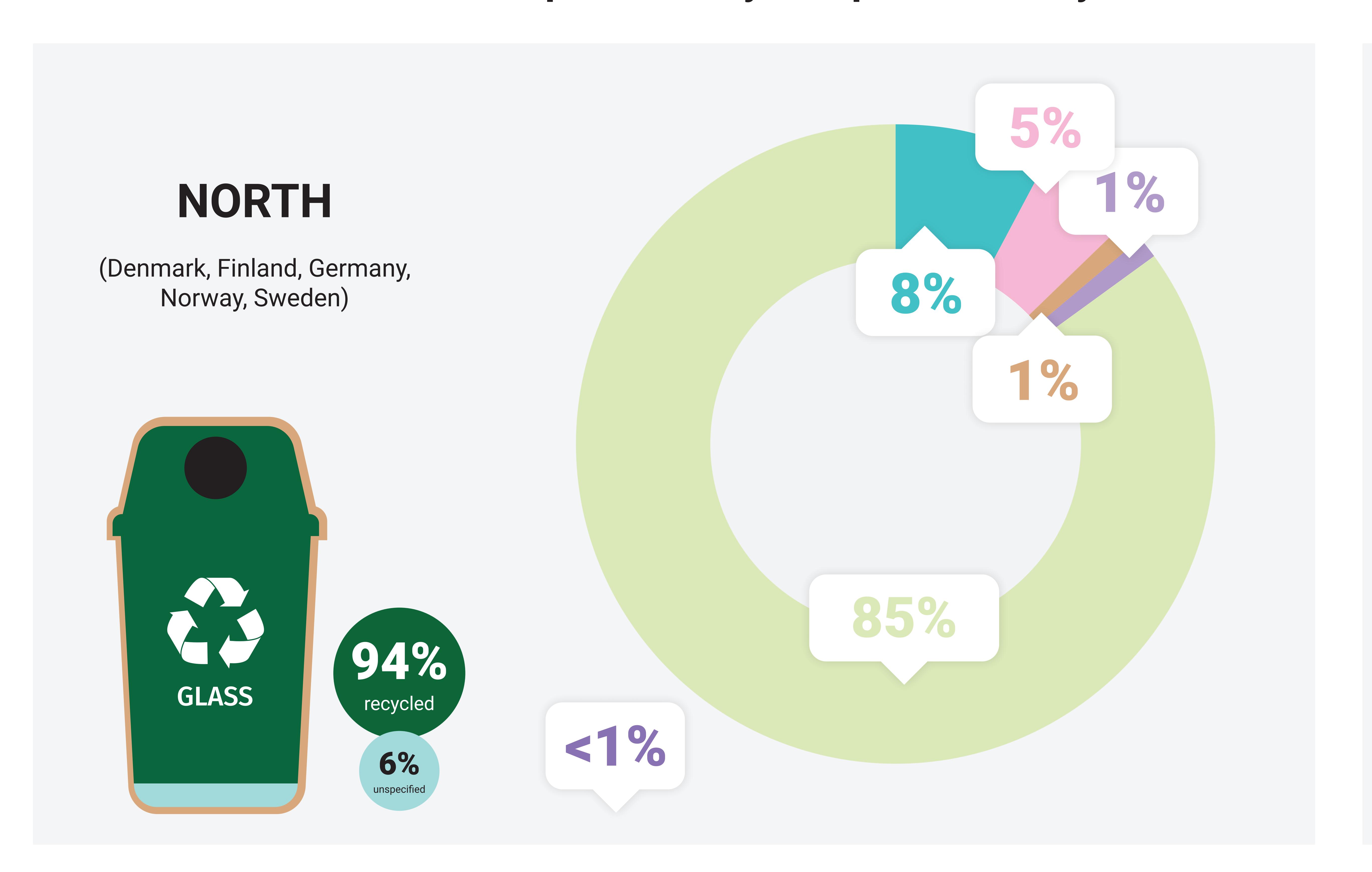
Distribution of the tonnage recycled in 2019 by recycling destination category: the closed loop is a reality.

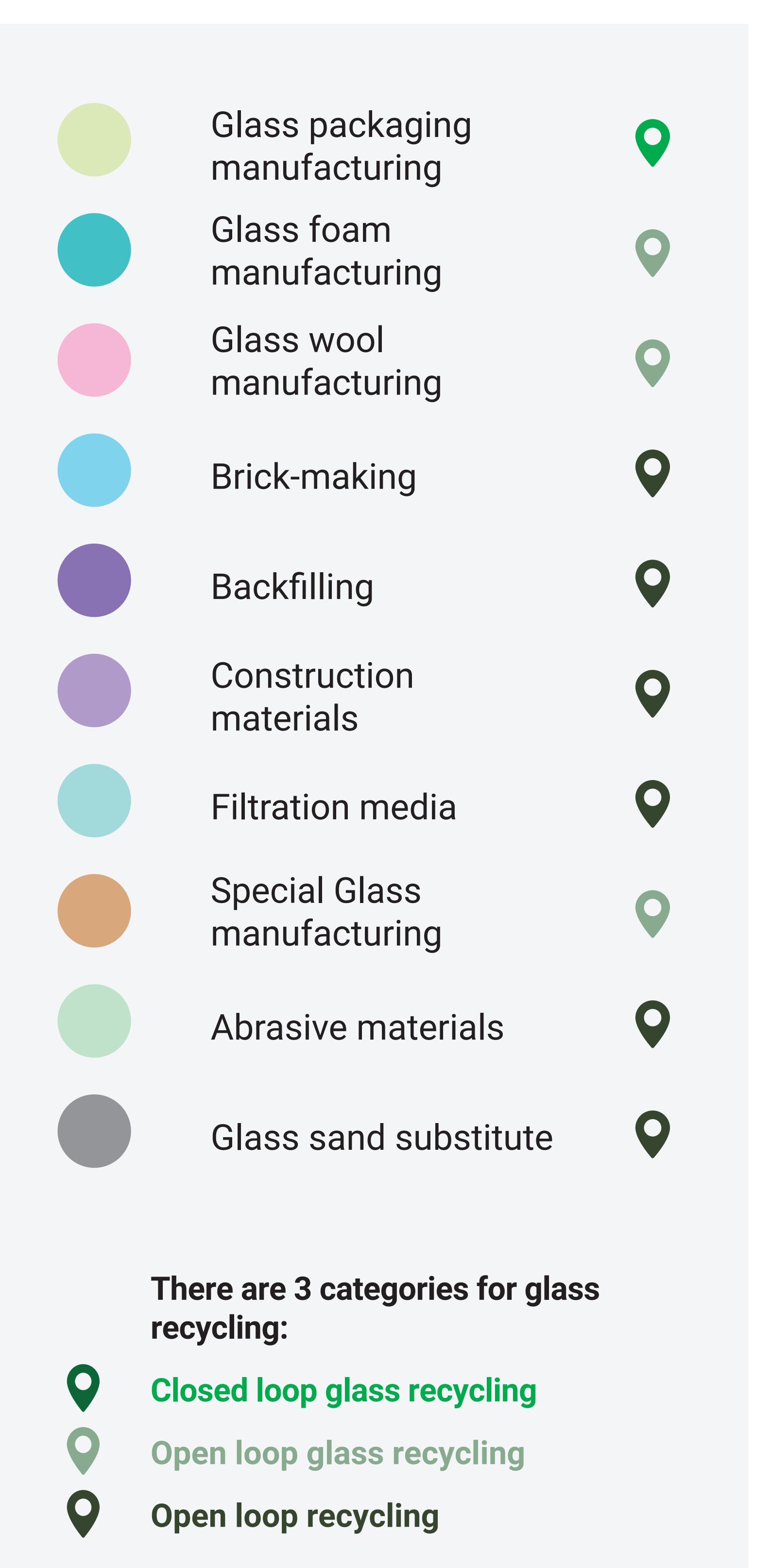


### Detailed distribution of the tonnage recycled in 2019 by destination route.

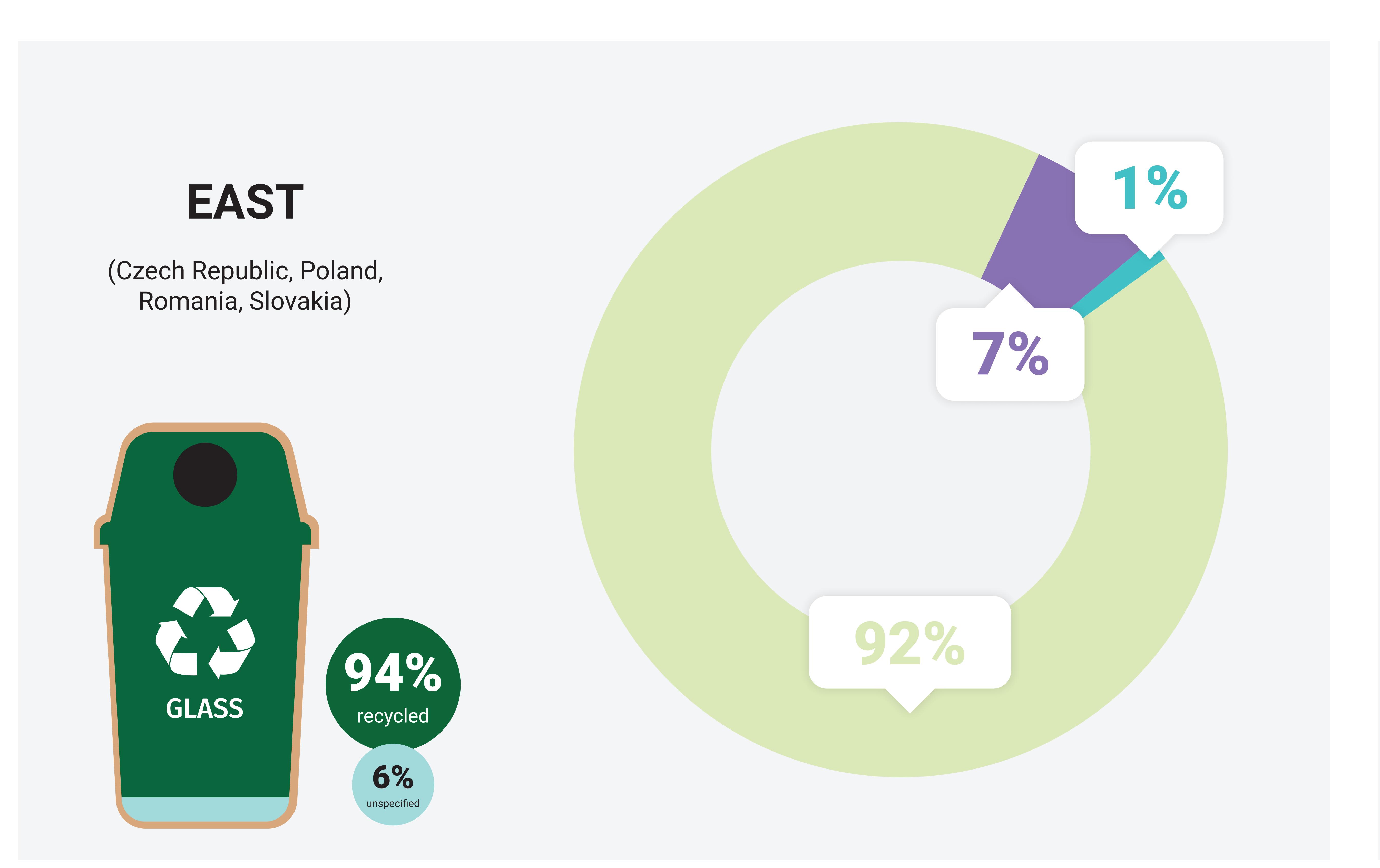


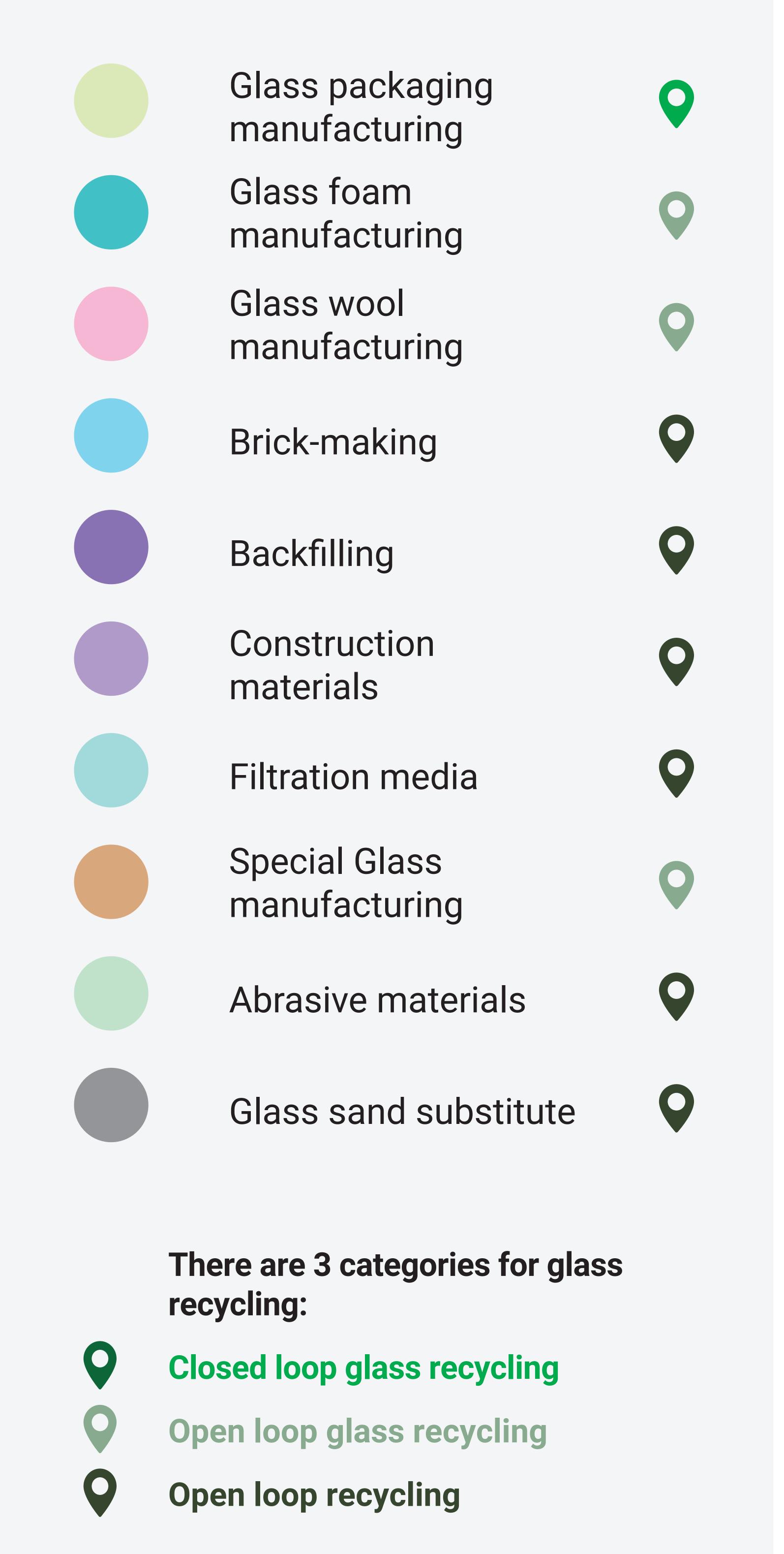
# Recycling performance of Europe's North Region: the closed loop is a reality complemented by several other recycling applications.





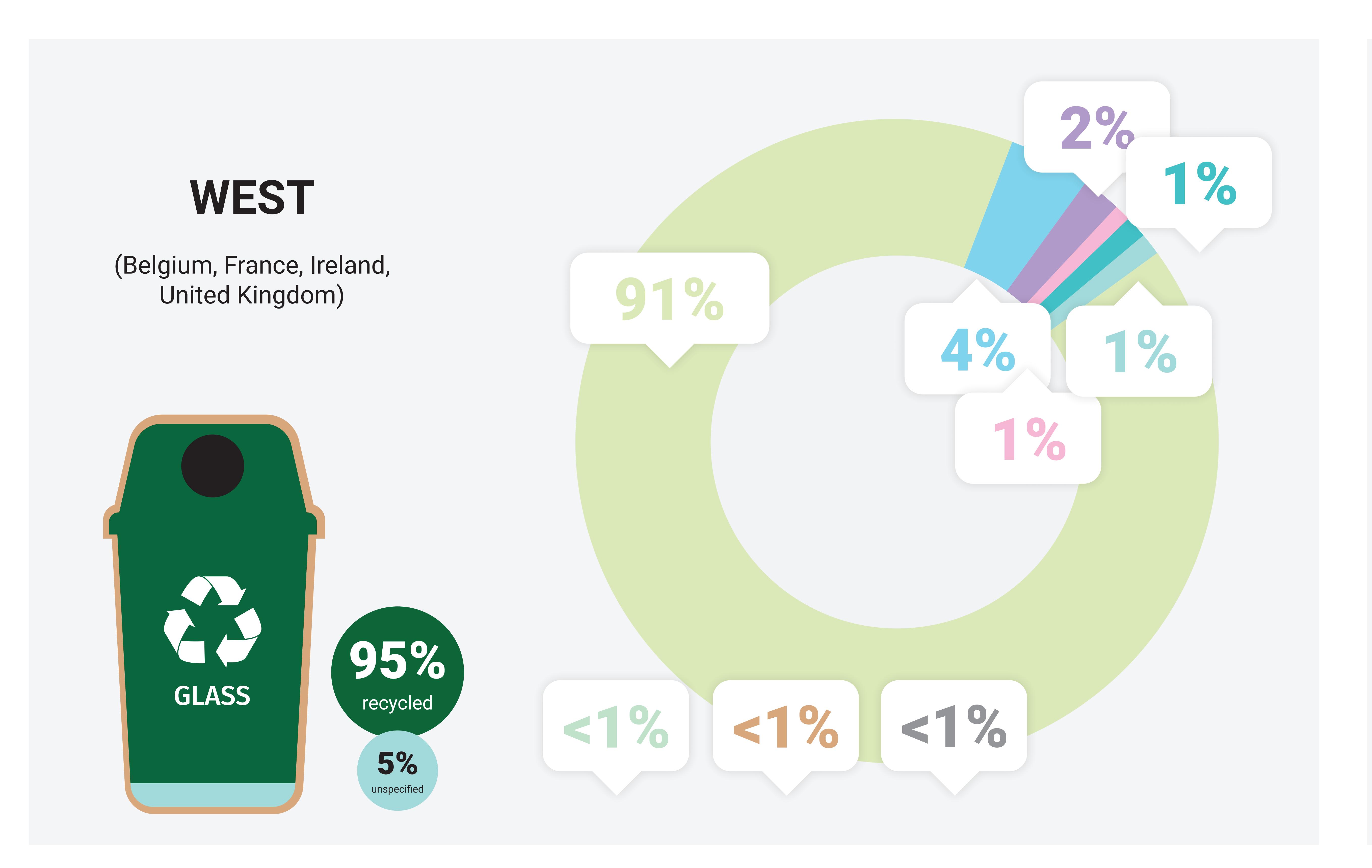
# Recycling performance of Europe's East Region: the closed loop is a reality complemented by backfilling.

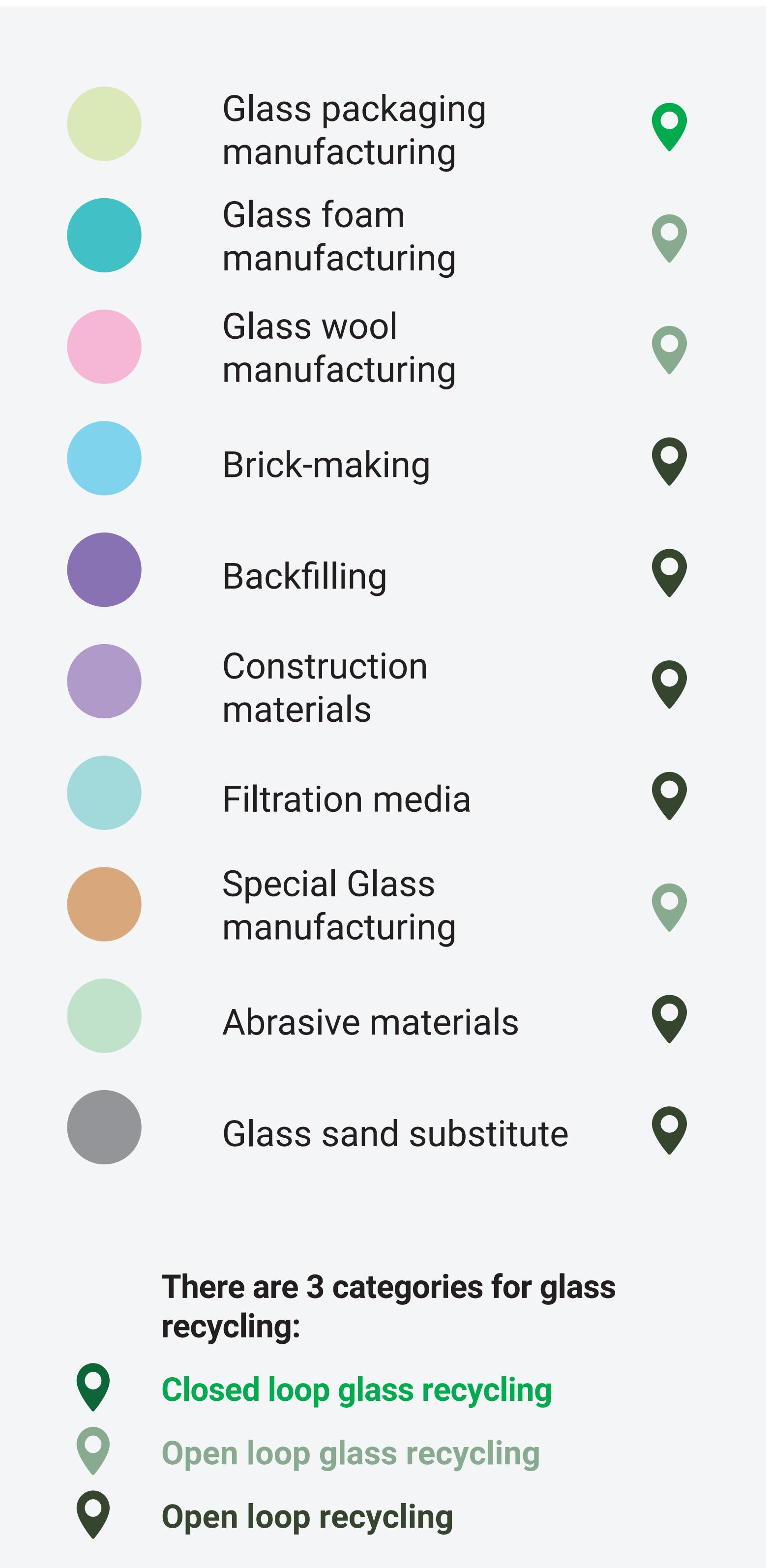




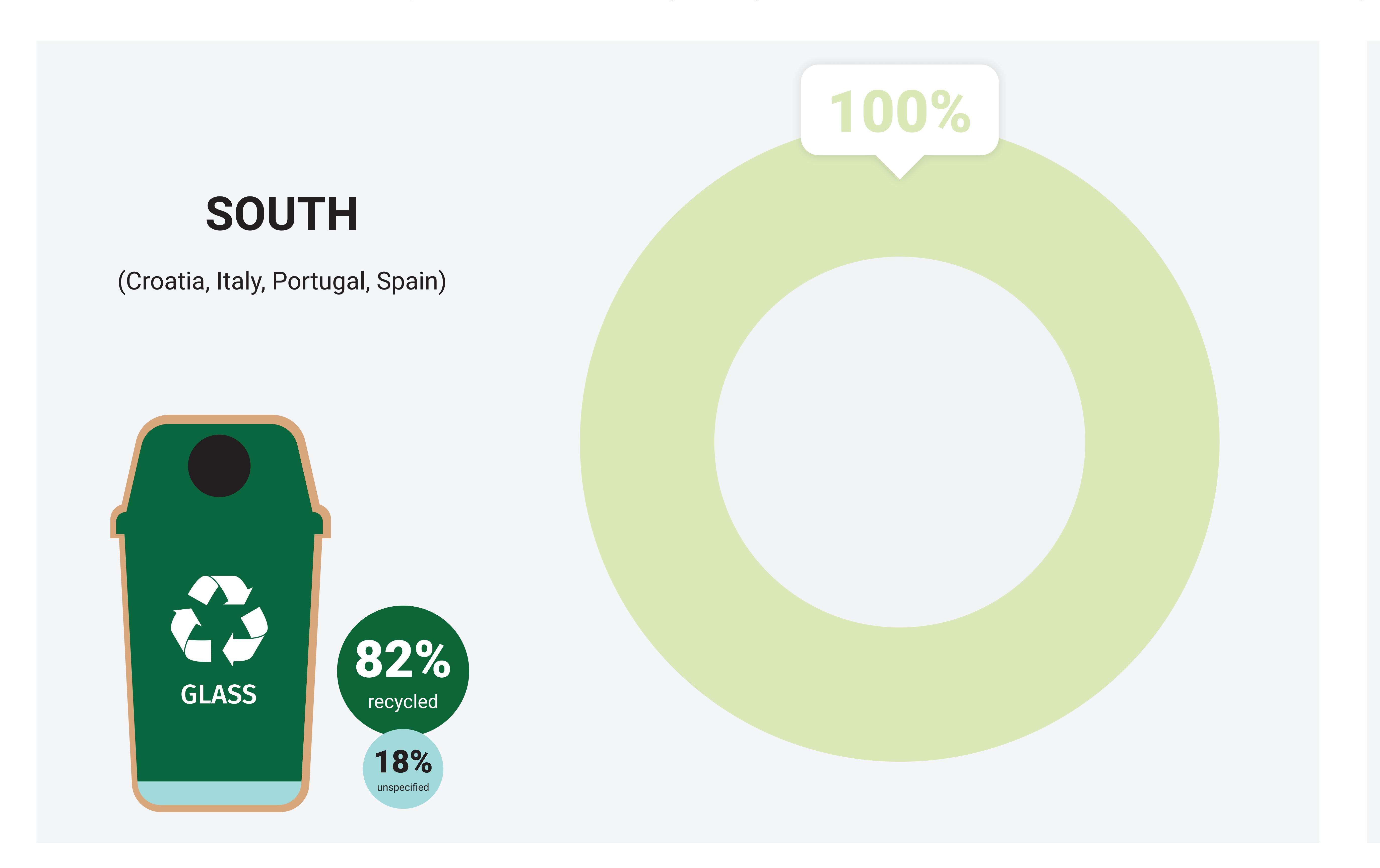
### Recycling performance of Europe's West Region:

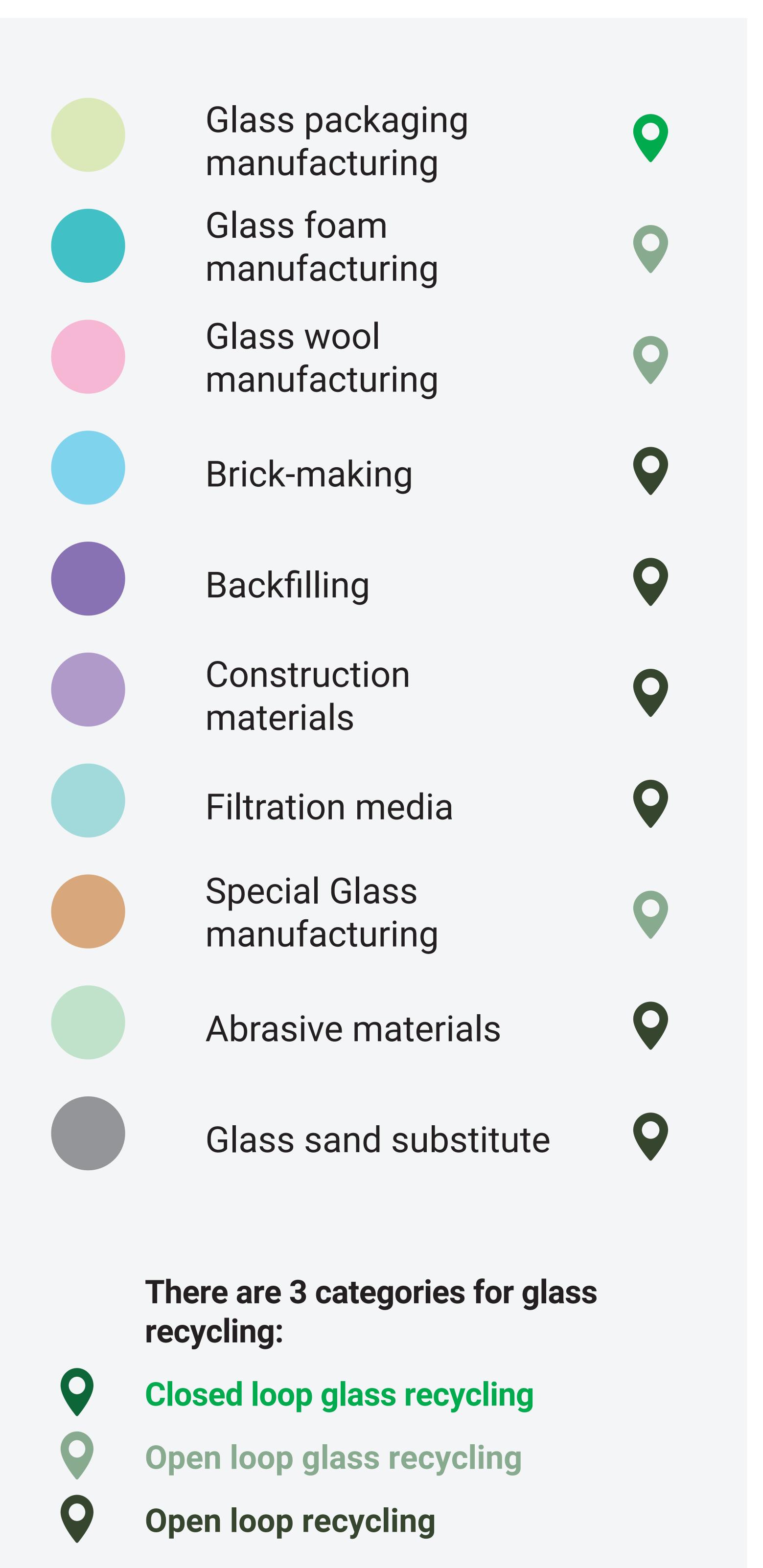
### the closed loop is a reality complemented by a wide variety of other recycling applications.





# Recycling performance of Europe's South Region: the lowest share of glass effectively recycled but the closed loop is the only recycling destination.





# Glass recycling is a highly integrated system from post-consumer waste to high quality product for manufacturing new bottles & jars.

