

Traceability of honey: New solutions to an old requirement

International Honey Market Trends

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Ministerio de Agricultura,
Ganadería y Pesca
Presidencia de la Nación

The Food and Beverages Sector of Argentina



7º Producer

13º Exporter

WORLD FOOD

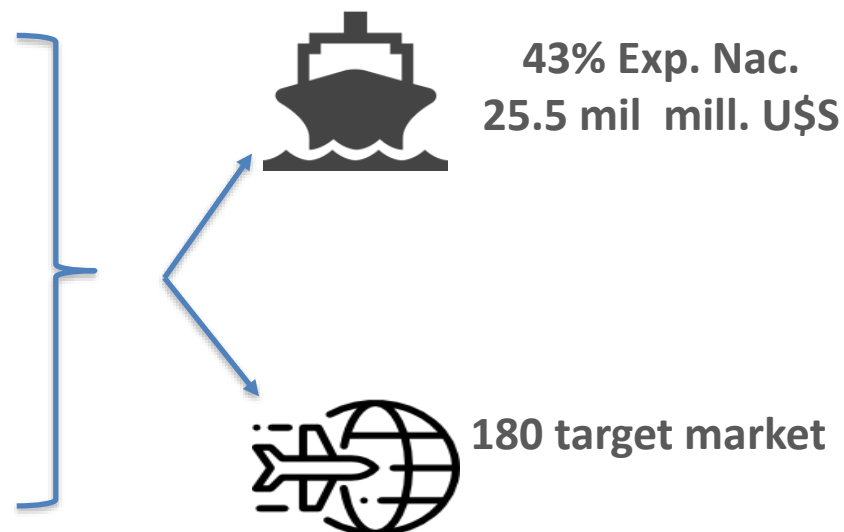


**276.581
producers**



**15.000 companies
(98% SME)**

**Food and beverages is the
sector that generates the
most added value (26%) and
the most employment
(28%)**



ARGENTINA EXPORT RANKING VALUE WORLD



1

- Soya oil
- Lemon juice
- Yerba mate
- Peanut oil
- Lemon essential oil
- Dried beans
- Preparations of peanut



2

• HONEY

- Garlic
- Pears
- Grape juice
- Corn
- Sunflower oil
- Dried plums
- Chickpea



3

4

- Olive preparations
- Wheat flour
- Lemon
- Black Te



5

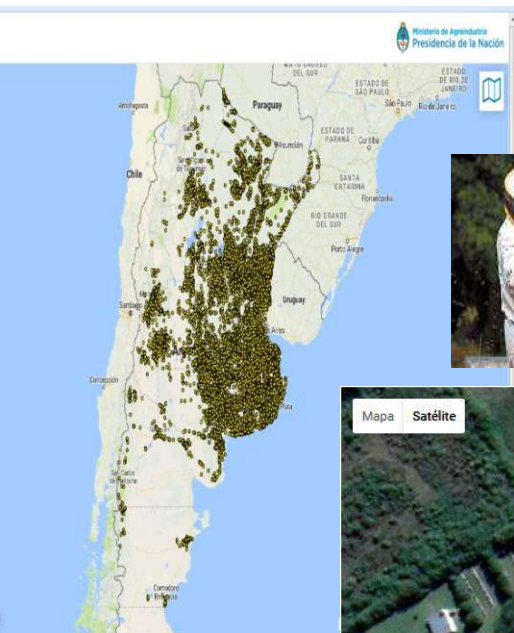
6

- Olives preserved
- Oil olive
- Blueberries



7

Argentina Apicultural



3º Producer*

2º Exporter**

Exporter 2018
70.778 tn
175 mill US\$

WORLD HONEY

36.159 apiaries
Geo-referenced

11.933
producers

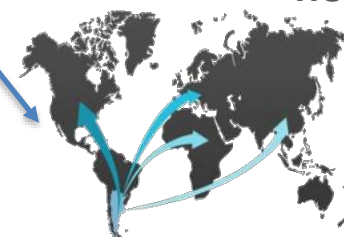
3 mill.
hives

1700
honey
Extraction
facilities

180
Processing
establishment (honey
collector, honey packing and
exported plants)



98% Exp. in
bulk
2% bottled
honey



25 target markets



1 RESEARCH AND TECHNOLOGY



Traceability Resolution MG/03 SENASA



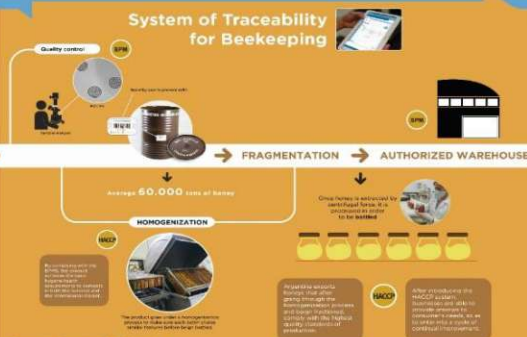
2 PRIMARY PRODUCTION



Traceability Resolution MG/03 SENASA



3 PROCESS



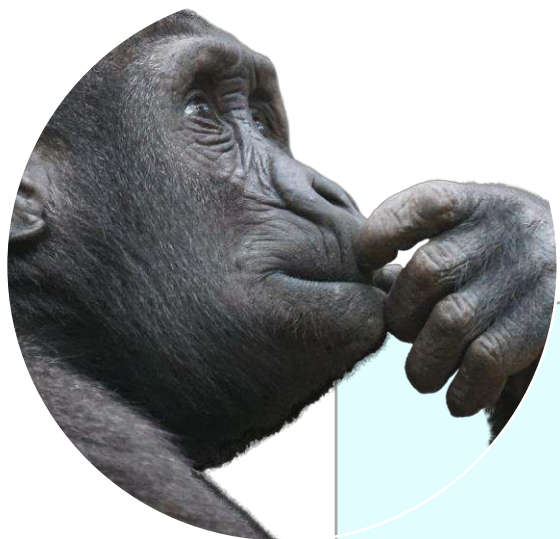
Traceability Resolution MG/03 SENASA



4 EXPORTABLE OFFER



¿WHAT'S TRACEABILITY?



The ability to trace and follow a food, feed, food-producing animal or ingredients, through all stages of production, processing and distribution.

Source: Regulation (EC) N° 178/2002.

¿WHO ARE INTERESTED IN TRACE?



Regulations

EC 178/2002
EC 1935/2004
2002 Bio terrorism Act
2011 Food Safety Modernization Act
HACCP in some countries.
Res. 186/03 (Argentina)
Etc.



Quality Standards

HACCP
GS1
GlobalGAP
ISO (9001, 22000, 22005)
So more...



Commercial Standards

GFSI
• BCR
• IFS
• SQF (1000/2000)
• FSSC 22000

¿WHAT'S IT FOR?



¿WHAT ARE THE MAIN OBJETIVES?

- Identify the origin of potentially unsafe product.
- Detect and segregate.
- Recall.

Safety



- Identify the origin of a non-compliant product.
- Product differentiation
- Improve process.

Quality

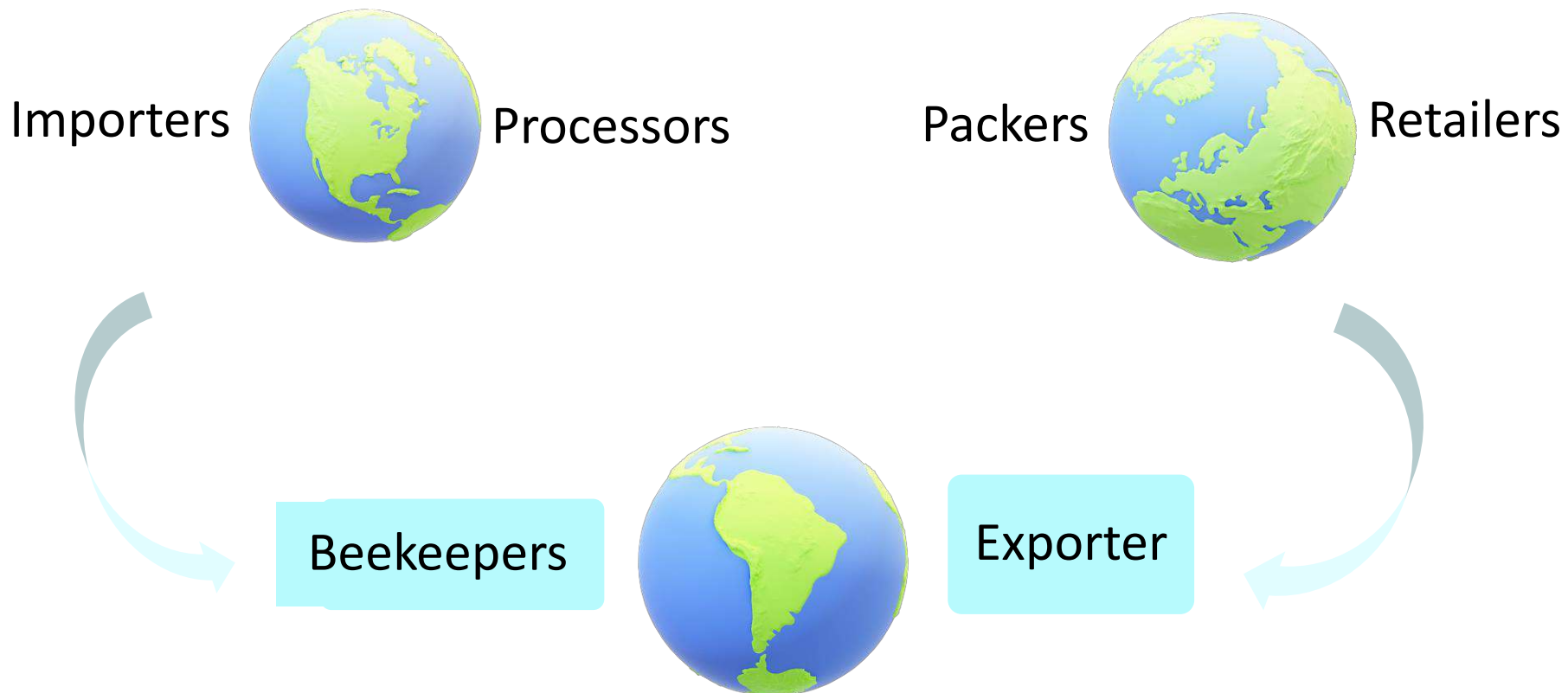


- Improve the credibility and the transparency of information.

Marketing



¿WHAT'S NEW?



TRACEABILITY MAINS PROBLEMS AND OPORTUNITIES

Problems

Unlinked databases

Lack of written or filed documented procedure

Documentary and presential controls

Improvement opportunities

Linked database

Online registrations

Online export certifications

Online controls and tracking

SOLUTIONS

COLABORATING INSTITUTIONS

Secretaría de
Modernización

Ministerio de
Ganadería,
Agricultura y Pesca

Senasa



National Apiculture Council

SYSTEM'S USERS

Beekeepers

Extraction
rooms
facilities
(extraction
plant)

Cooperatives

Drum honey
manufacturer

Label's
printing
company

Processors

Exporters

Governments
institutions

Stakeholders

SOLUTIONS



Online beekeepers registered with validation of local apiculture areas



Extraction rooms facilities (extraction plants): sanitary qualification, registered in a national database



Self-management of the electronic Transit Document (DT-e) for the movement of beehives.



App for notifying abandoned apiaries, hives mortality and suspicion of exotic diseases

SOLUTIONS

Entire honey chain

Drum honey
manufacture

Label's
printing company

Extraction rooms
facilities

Beekeeper

Honey collector

Exporter

Sanitary
authorities

Official
Laboratories

Traceable unit



THE INFORMATION OF THE LABEL



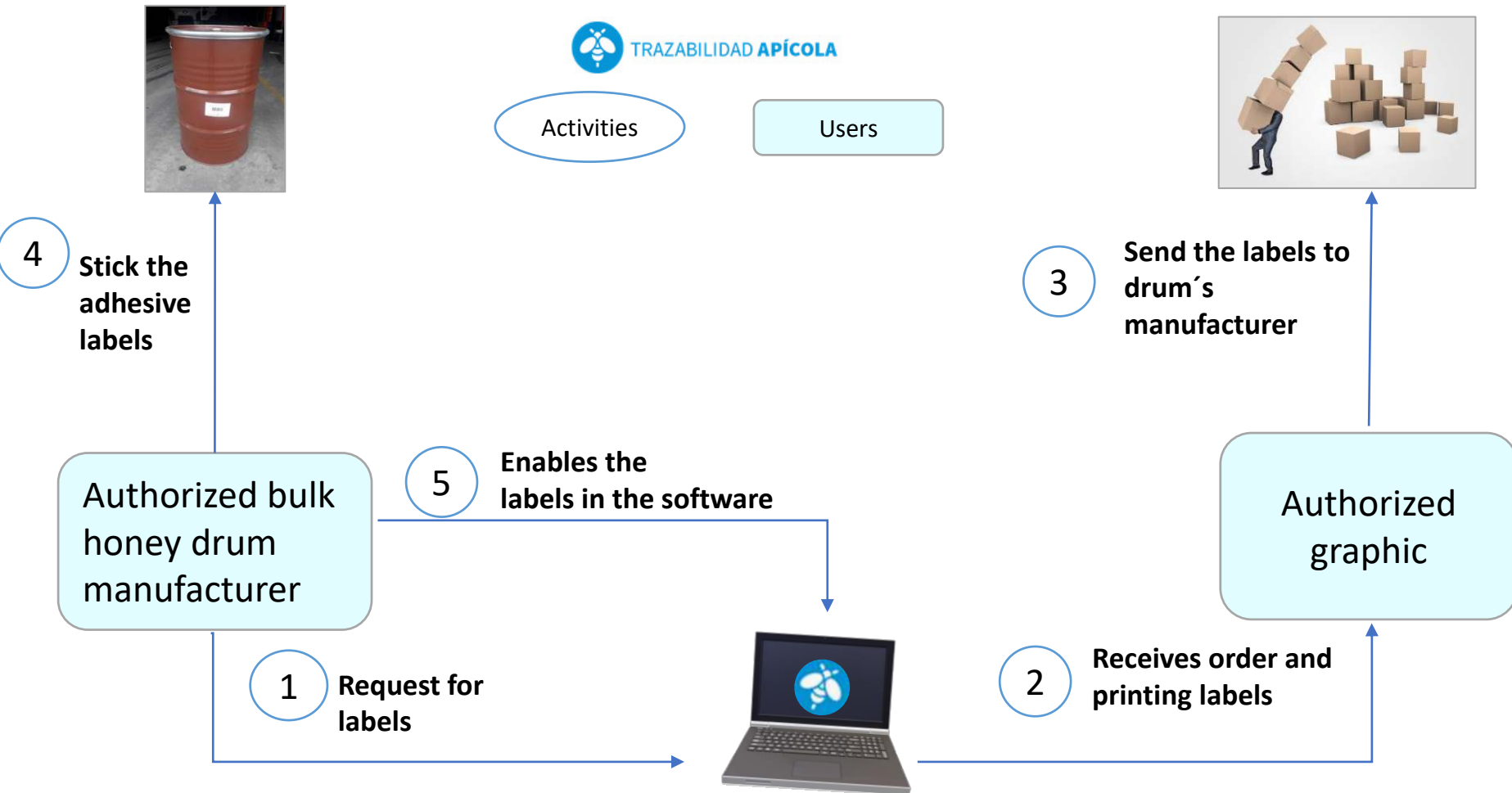
Have some
security
characteristic

drum
manufacturer

random digits

verification
digit

THE TRACEABILITY SYSTEM (SITA)



TRACEABILITY IN EXTRACTION ROOMS

Extraction rooms

1 Enter data*
into the
system

2 The system created a
batch number from
honey extracted

The batch number
is documented

3

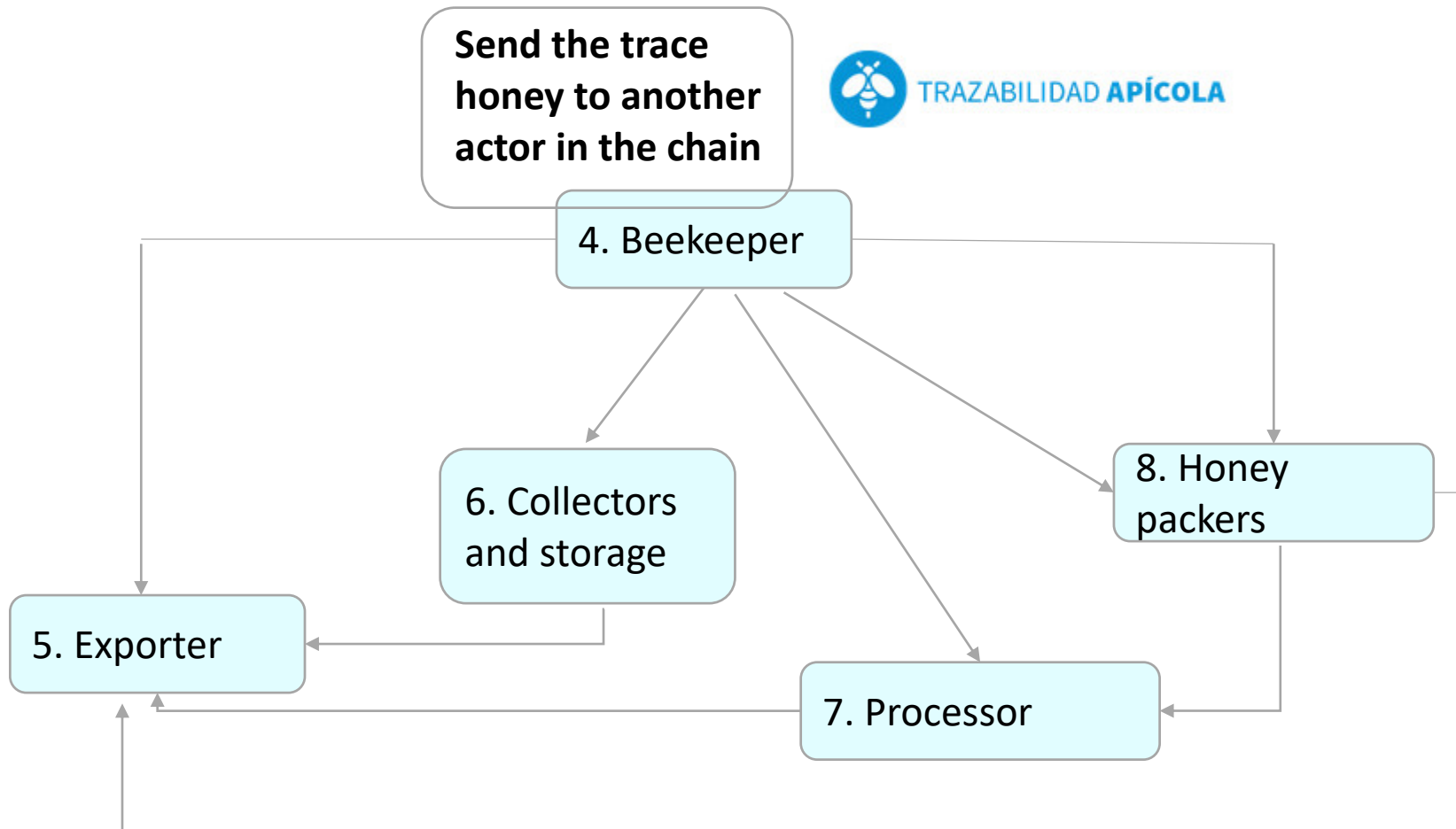
Beekeeper

4 Accepted or
eventually rejected
the batch by the
system

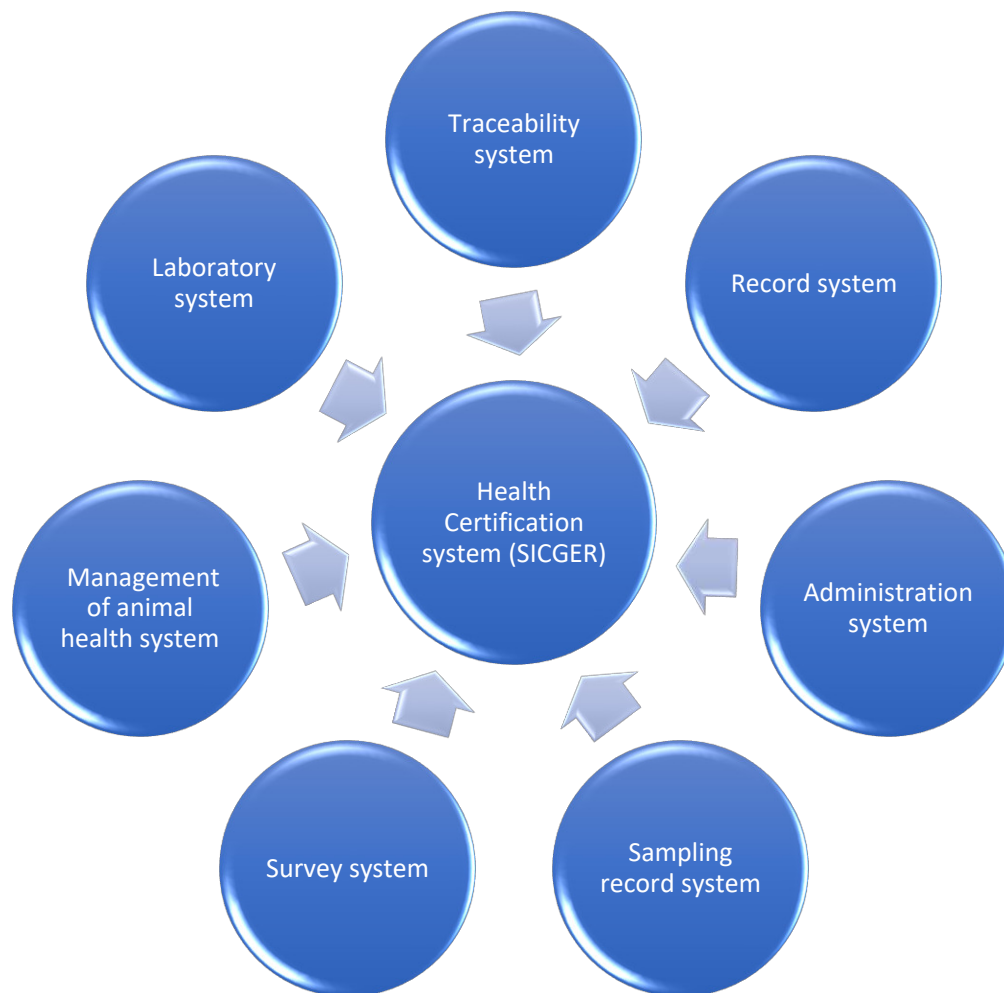


*DATA: Extraction rooms, beekeeper and
beehives identification; honey harvesting date;
number of honey frame, drums code labels,
etc.

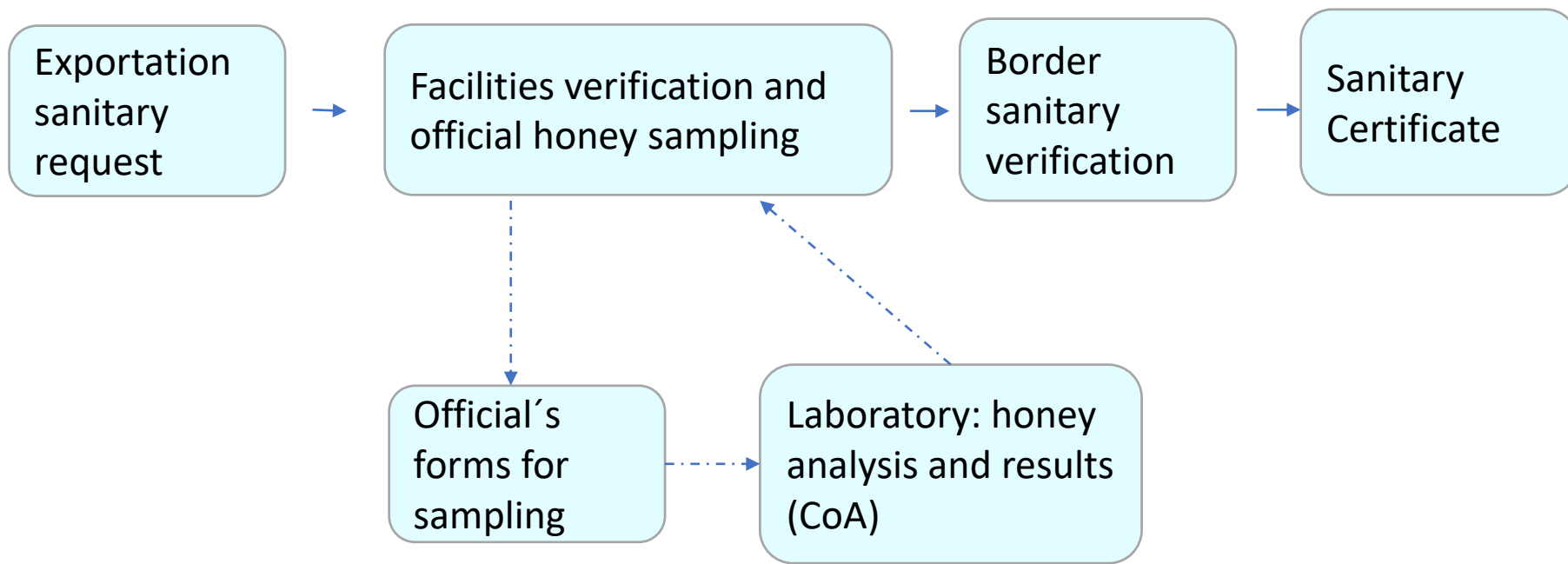
TRACEABILITY FOLLOWS THE NEXT STEPS





TRACEABILITY IN EXPORTERS






TRACEABILITY IN EXPORTERS



THE HISTORY OF A HONEY DRUM

 TRAZABILIDAD APÍCOLA





Consultar Estado de Tambor


[Inicio](#) / [Tambor](#) / Consultar estado

Consultar etiqueta

☒ Por etiqueta ☐ Archivo de etiquetas



 Secretaría de Agroindustria
Ministerio de Producción y Trabajo
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 **senasa**
SERVICIO NACIONAL DE SANIDAD
Y CALIDAD AGROPECUARIA



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CONCLUSIONS

- Argentine honey traceability system (SITA-SIGCER):
 - Follow all steps during the honey's process,
 - Contains the necessary and relevant information,
 - Comply with food legislation,
 - Allows coordinate and adopt actions in case of risk,
 - Improve controls.



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