SERSIA FRANCE

# SERSIA 值得信賴

**53** 年的國際貿易經驗

**70** 個合作國家

**1st** 法國第一的牛羊育種專家

**1 000 000**
每年銷售多達百萬劑精液

**1 000**
每年生產千顆胚胎

# SERSIA 出產品質保證

1) 世界上最完美的育種計畫

2) 所有公牛皆有後代檢定

3) 完美的健康狀態

# SERSIA 讓您有多元的選擇

**乳牛:**

*純種*

*雜交*

- 荷仕登
- 諾曼第
- 紅花斑牛
- 法國褐牛

**山羊:**

- 薩能
- 阿爾拜因

**高潛力肉牛品種:**

- 立本辛
- 夏洛來
- 金黃阿奎頓

**雜交的乳牛或肉牛:**

- CH. Excellence
- LIMOUCROSS
- INRA 95

**本地肉牛品種:**

- AUBRAC
- BAZADAISE
- SALERS
- GASCONNE

## SERSIA 多元化的產品

1) **Semen** of more than ***650 bulls*** of ***16 breeds*** & 60 bucks of ***2 breeds***
提供16個品種、超過650頭公牛的精液，以及2個品種、60頭公羊的精液

2) **Semen with high added-value** :
高附加價值的精液

> **Sexed semen** *(Sexed Semen Sersia)*
性別篩選精液

> **High fertility semen** *(Ferti +)*
高受精率的精液

> **Polled bull semen** for Holstein, Charolaise and Limousine
荷士登、夏洛來和立本辛的無角基因精液

3) An **unique wide range of embryos** from our different breeds and from sexed semen
由於本公司具有多品種與性別篩選精液，能提供各種組合型的冷凍胚胎

## SERSIA 提供專業和完善的服務

1) An **efficient** mating software, SELECTIS
高效能配對軟體– **SELECTIS**

2) Females genotyping, **GENIMPROVE**
雌性基因型偵測– **GENIMPROVE**

3) **Technical support** in various domains : 多面向的技術支援

> *artificial insemination 人工授精*
> *embryo transfer 胚胎移植*
> *husbandry evaluation & audit 飼養評估 & 查核*
> *scoring 評分*
> *mating 交配*

4) **Organization of professional visits (SERSIA TOURS)**
SERSIA公司技術人員實地拜訪

5) A **wide range of reliable husbandry equipment**
提供完善可信賴的飼養配備

6) In contact with our customers at numerous **fairs** and **International conferences**
在會展或跨國會議與客戶進行現場互動及諮詢

## Summary
## 簡報大綱

Part 1: Presentation of goat production in France
法國羊業簡介
Part 2: Characterization of French genetics
法國遺傳基因特色
Part 3: Advantages of insemination
人工授精優勢
Part 4: SERSIA's vision
賽思雅的願景

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# The dairy goat production in France
# 法國羊業簡介

撒能總頭數：
**350,000**

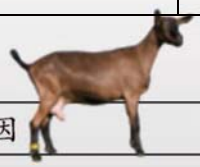
阿爾拜因總頭數：
**450,000**

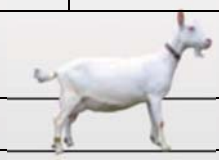
**Network of farms**
**農場網絡**
**Network of genetic technicians**
**遺傳技術人員網絡**
**Network of inseminators**
**人工授精網絡**

# The dairy goat production in France

| | Proportion of farms 農場比例 | Proportion of goats 乳羊比例 | Milk production 羊乳產量 | Average number of goats 平均頭數 |
|---|---|---|---|---|
| Milk producers 羊乳生產 | 48% | 72% | 78% | 233 |
| Cheese makers 起司生產 | 47% | 22% | 15% | 70 |
| Mixed 綜合 | 5% | 6% | 6% | 190 |

*Institut de l'élevage, 2013*

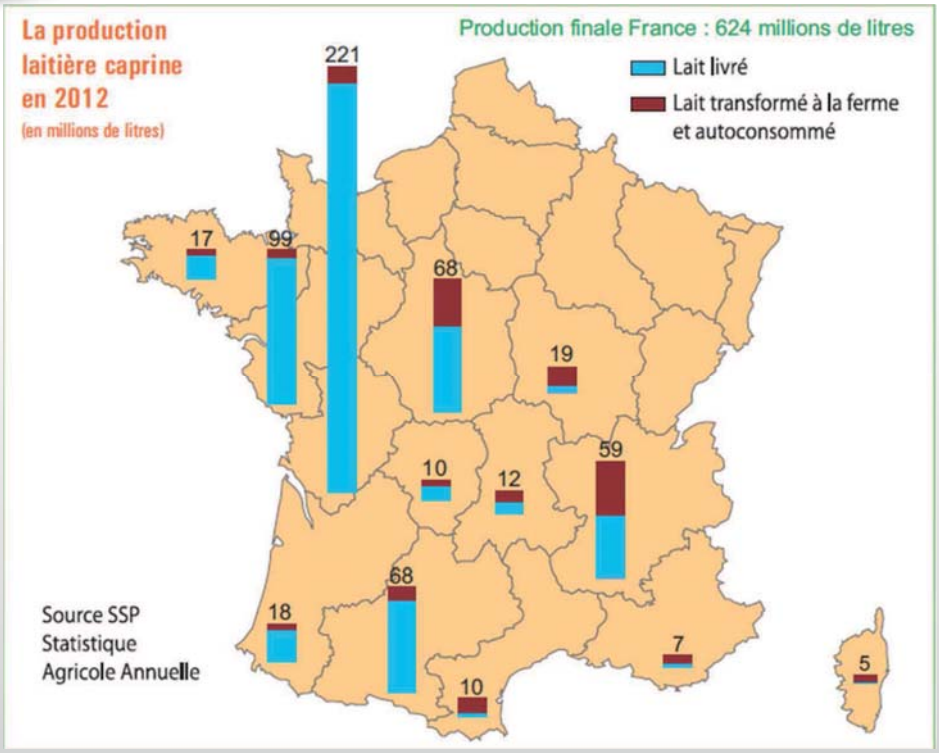




| | 阿爾拜因 | 薩能 |
|---|---|---|
| 哺乳期長度(天數) | 296 | 313 |
| 羊乳產量(kg) | 915 | 996 |
| 脂肪含量(g/kg) | 37,6 | 35,5 |
| 蛋白質含量(g/kg) | 33,0 | 31,7 |

# The dairy goat production in France

2012年 法國羊乳產量 = 6.24 億公升




# A large range of preoccupations

## 環環相扣的考慮因素

**Farmer's objectives**
Income
Work
Tastes
Future of the farm

飼主需求
收入
工時
風味
農場未來

**Demand of market**
Period of production
Milk quality
Type of production
(organic…)

市場需求
生產週期
羊乳品質
生產類型（有機…）

**The farm** 農場
Size of the herd 畜群大小
Feeding 飼料狀況
Reproduction 繁殖情形

**Social and economic context**
Price of products
Politics
Ecologic regulations

社會和經濟背景
產品價格
政策
生態法規

**Situation of the farm**
Climate
Agro potential
Topography

農場環境
氣候
農業潛力
地形

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**法國遺傳基因特色**

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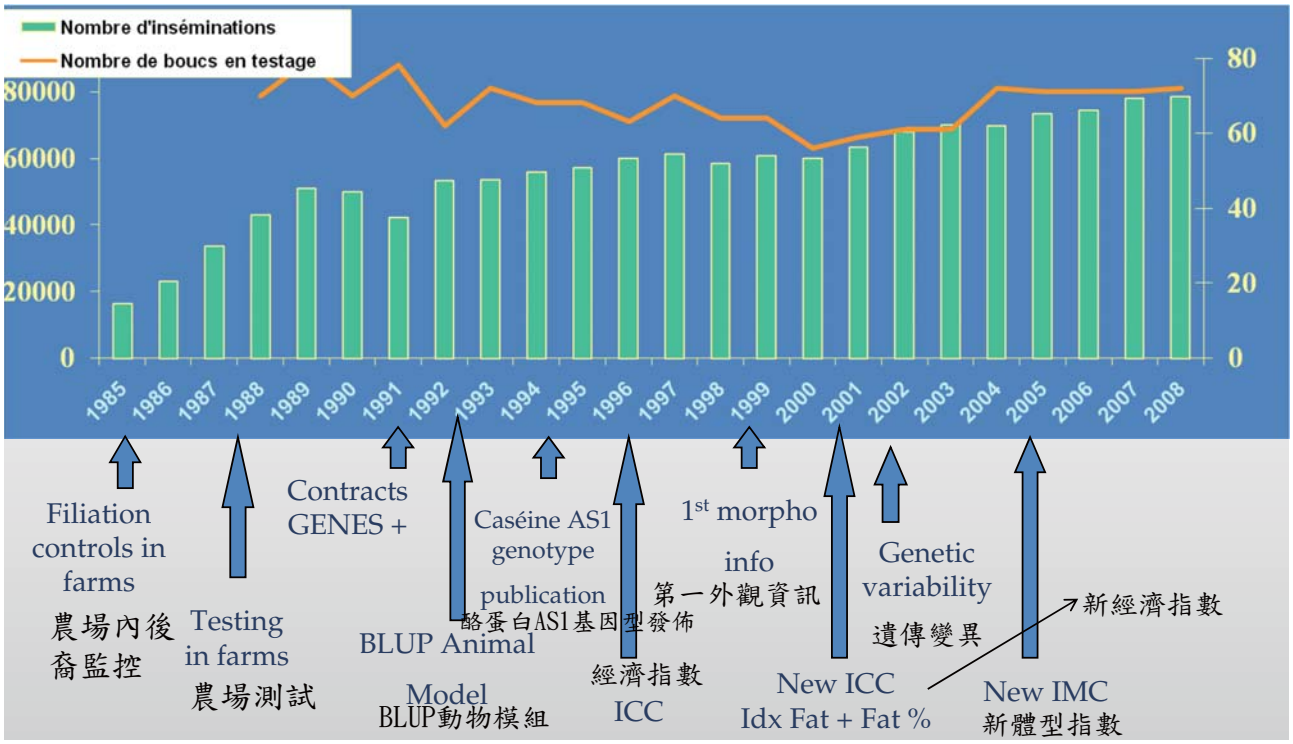
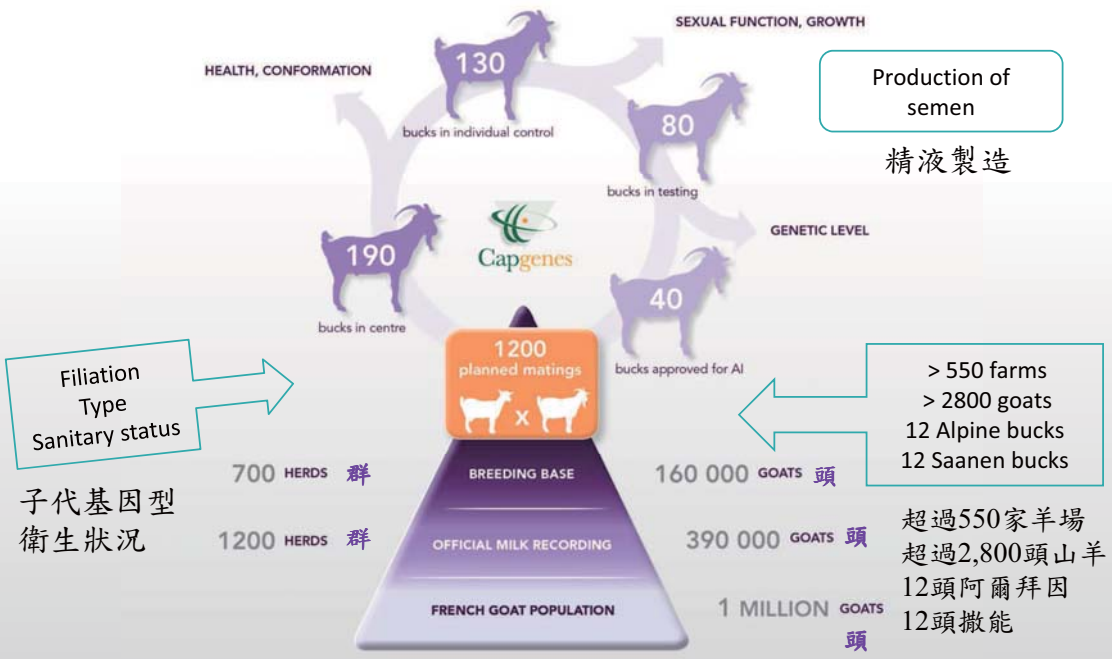
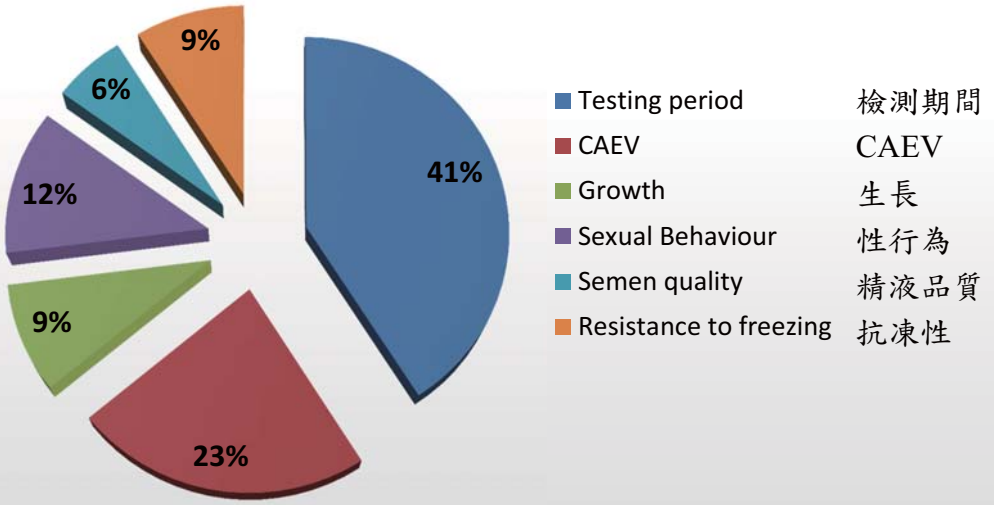
# SERSIA 育種歷史記錄



# 法國山羊育種計畫




# Disqualifying criteria
# 不合格之判定標準



# Genetic progress
# 育種里程碑

**+ 150 kg of milk during last 10 years**

**+ 0,1 g/kg of protein and fat per year**

**過去10年乳產量的增加超過 150 公斤**

**每年每公斤羊乳蛋白質和脂肪含量增加 0.1 克**

# Reliability of proofs 值得信賴的指標

- Size of the reference population 總在養頭數的規模
- Milk recording 乳產量記錄
- All index is based to the French average production
  所有指數皆以法國平均值做比較

| NOM | CODE IA | NB | CD | IPC | LAIT | MP | TP | MG | TB | IMC | cell. | | | | PÈRE | | GPP | | GPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAGOBERT | D504 | 91 | 91 | 140 | 59 | 2,9 | 1,1 | 2,9 | 0,9 | 107 | 97 | ** | *** | *** | U578 | UBALD | O510 | ORLOFF | 1225402006 |
| FREUD | F164 | 118 | 91 | 141 | 174 | 3,6 | -1,3 | 5,2 | -0,6 | 100 | 79 | **** | * | ** | U527 | UTACH | M161 | MOSKOVA | 1225402006 |

*IPC: Goat Production Index 山羊生產指數*

- Ensures genetic progress on dairy traits, quantitatively and qualitatively:
  確保乳製品的特質，以及定量和定性的遺傳演進
  IPC = MP + 0,4 TP + 0,2 MG + 0,1 TB
- Based on 100: each bucks having an IPC > 100 is increasing the dairy traits relatively to the French average
  以100為基準：每隻公羊的IPC指數大於100，即為高於法國平均值的產乳性能幅度

*MILK (LAIT)*

- Based on 0: index of 174 means that the buck will transmit a milk potential of + 87kg to his daughters
  以0為基準：指數174代表公羊會將+87kg的乳量潛能遺傳給女羊

# Reliability of proofs值得信賴的指標

| NOM | CODE IA | NB | CD | IPC | LAIT | MP | TP | MG | TB | IMC | cell. | | | | PÈRE | | GPP | | GPM |
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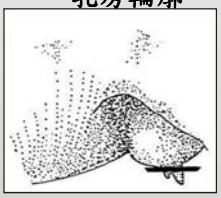
## *IMC: Goat Morphology Index 體型指數*

- Based on 100　以100為基準
- Combination of the most relevant, elementary type proofs 綜合所有相關的基礎指標

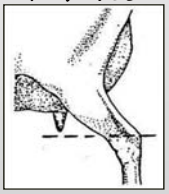
IMC = udder profile + udder floor position + rear udder attachment + teats orientation + udder front

乳房輪廓



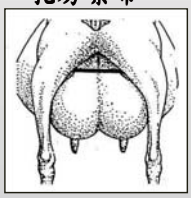
Udder profile

乳房高度



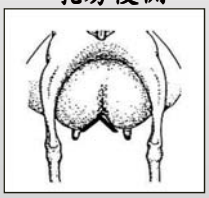
Udder floor position

乳房繫帶



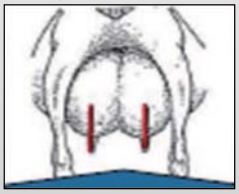
Rear udder attachment

乳房後側



Rear udder

乳頭方向



Teats orientation

# Reliability of proofs值得信賴的指標

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## *Cell. Somatic cells 體細胞*

- Based on 100: average index of the females which were born between 2008 and 2011
  以100為基準：母羊平均指數是在2008~2011出身

- Index > 100 means that the buck improve this criteria. His daughters have somatic cell counts lower than the average
  指數大於100代表公羊表現較平均佳，其子代已具有低於平均的體細胞

## Quality of semen 精液品質

- The French experience: since 1975
  1975創立至今，經驗豐富
- A French method
  法國技術
- A technologic yield of 22 doses per ejaculate
  每次射精可達22劑的量
- A minimum of 24 million sperm after defreezing
  解凍後精子數至少有2400萬
- A pregnancy rate with frozen semen of 62%
  冷凍精液受孕率達62%

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## Advantages of AI 人工授精的優勢

**人工授精**

- Sanitary conditions
  衛生條件
- Genetics 基因
- Herd management
  羊群管理
- Economic advantage
  經濟優勢

**自然交配**

- Quantity of semen available
  有限的精液數量
- Genetic quality of buck
  公羊基因品質
- Sanitary risk 衛生風險
- Filiation 父系管理

## Advantages of AI

**Sanitary conditions 衛生條件**

- Diffusion of diseases with bucks 公羊疾病擴散
- Sanitary guarantees of semen 精液衛生保證

**Increasing genetics ? 基因多樣化**

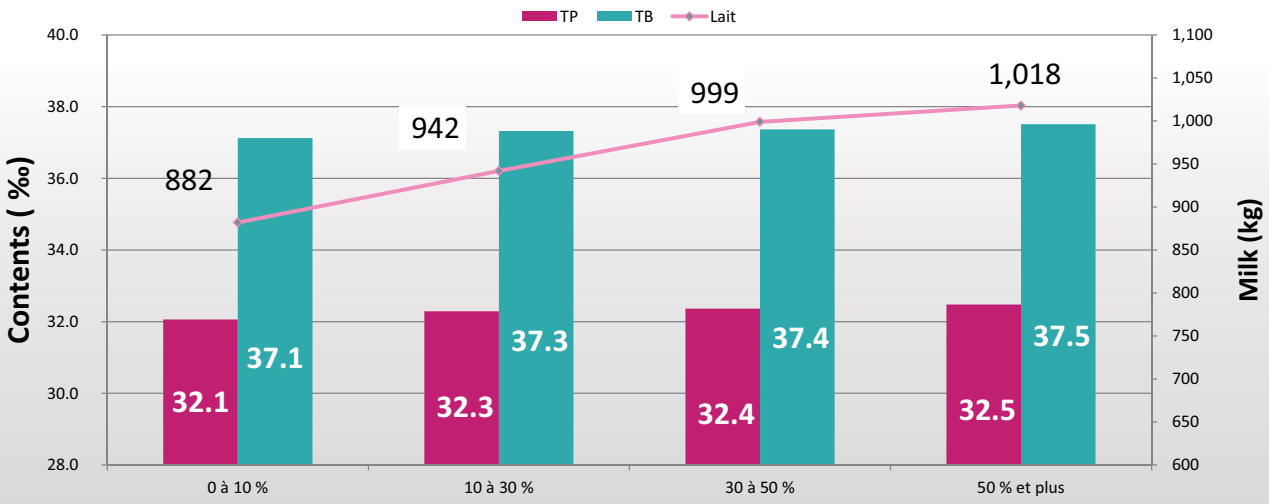
- Diversity of bloodlines 血統多樣性
- Different profiles of bucks 不同優勢的公羊
- Bucks approved with progeny testing 通過後裔檢定的公羊
- Selection on Casein alpha S1 酪蛋白 alpha S1型選擇
- Selection on type 類型選擇

**Organization 機構**

- Period of reproduction 繁殖期
- Rigour of herd management 嚴謹之羊群管理

# Results in farms of breeding base
# 繁殖羊場的研究結果

**Performances according to the proportion of goats from AI**
**人工授精山羊比例與乳產量表現**




Source :Bilan génétique 2011

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**SERSIA 賽思雅的願景**

SERSIA FRANCE

## Breeding expertise
## 賽思雅的願景– 成為繁殖育種專家

**Objective**: Identify the project of the farm

- Herd increase
- Milk process
- Milk quality increase
- Labor training

**目標**：確認農場欲改善的目標

- 增加羊隻數量
- 羊乳加工
- 增進羊乳品質
- 員工教育訓練

→ Reproduction expertise 繁殖專長

→ Genetic expertise 遺傳專長

→ Herd management expertise 羊群管理專長

# Reproduction management

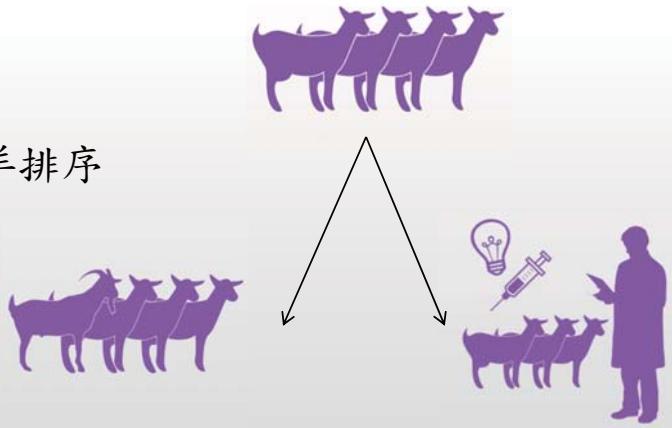
## 繁殖管理

一般繁殖規劃編制

1. General organization of reproduction
   - Period 週期
   - Method 方法
   - Protocol 流程建立

2. Sorting of the goats 山羊排序

3. Setting's follow up
   後續追蹤



# Reproduction management

## 繁殖管理

<u>Inseminations</u> 人工授精

**Objective**: obtain a maximum of pregnancies

目標：受孕率極大化

Inseminations with the breeder
由人工授精專家操作

AI training
人工授精訓練

# Reproduction management
## 繁殖管理

Ultrasonography 超音波檢查
**Objective**: confirm pregnancies and stage of pregnancy
目標：確認懷孕和胚胎發育情況

Kidding 生產小羊
**Objective**: help the breeder to organize and prepare the kidding
目標：幫助飼養者準備母羊的生產

# Follow up on performance
## 追蹤後代表現

**Objective**: evaluate the farm's success according to the objective given
目標：根據所設定的目標評估羊場是否成功

*Experiences 2013: Exports of young goats with technical support*

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# Thank you for your attention