



Overview on METAPROGRAMME



METAPROGRAMME 介绍



French National Institute for Agricultural Research

法国农业科学研究院



A national mission-oriented public research organisation

一所国家公立科研机构

Agriculture
农业



Food
食品



Environment
环境



❖ **Under the aegis of the ministries of 受以下机构管理：**

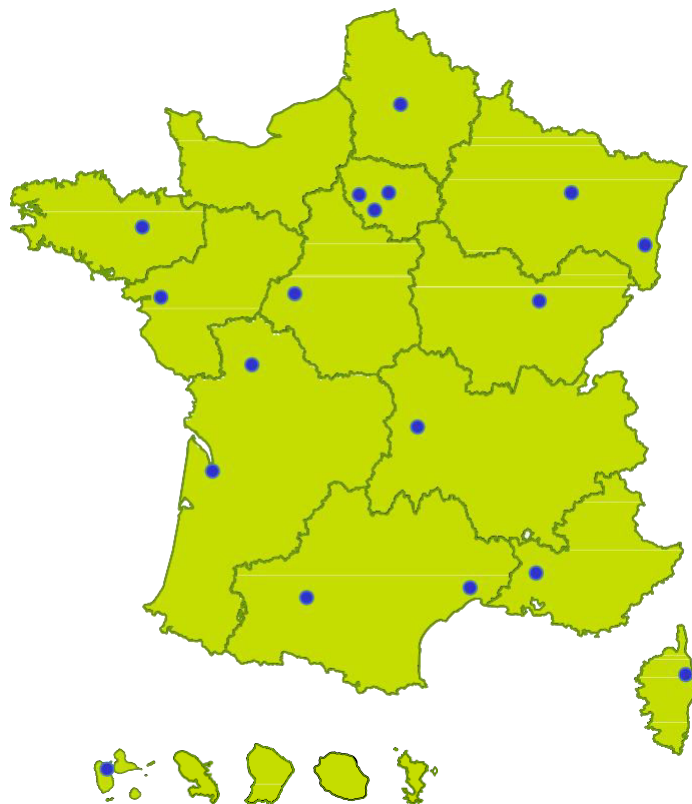
- **Research, Higher Education and Innovation**
法国高等教育、研究与创新部
- **Agriculture and Food**
法国农业暨食品部

❖ **Missions 使命：**

- **Produce and disseminate scientific knowledge 生产传播知识**
- **Contribute to: 为以下领域做贡献**
 - ✓ national research strategy 国家科研策略
 - ✓ public policy development 制定公共政策
 - ✓ Innovation 创新
 - ✓ Education 教育
 - ✓ Engagement with society 社会互动

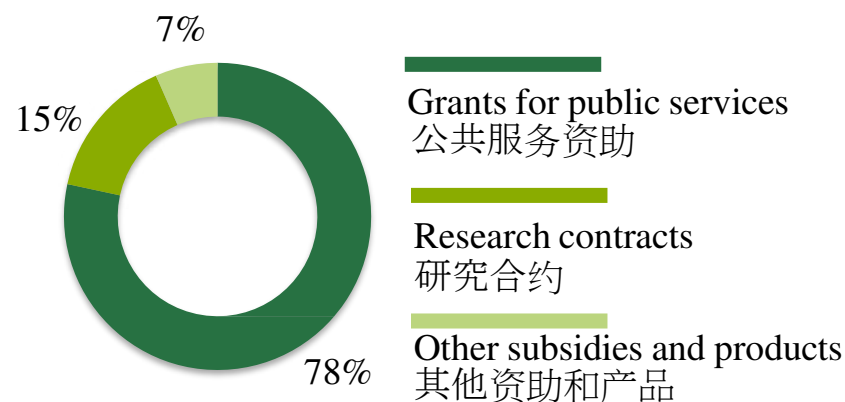


INRA organisation 组织架构



- ❖ **17** Research Centers 地方研究中心
- ❖ **13** Scientific Divisions 科研部门
- ❖ **184** Research Units 研究单位
- ❖ **45** Experimental Units 实验单位

- ❖ **13,354** staff members (8,042 permanent)
13 354名员工（8 042名正式员工）
- ❖ **Budget: €854,8m**
预算：8.548亿欧元





Science – policy interface and knowledge transfer 科学-政策交互和知识转移

Assessments 评估



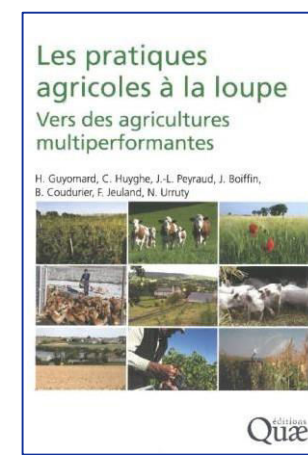
Foresights 展望



Advanced studies 前沿研究



Transfer 转移



Visions of the future and the environment
Major categories of scenarios emerging
from international environmental foresight studies



INRA rank by citation and by publication numbers

发表物数量和被引用次数排名



| Disciplins (ESI)学科 | Rank 排名 | | | | | |
|---|--------------|---|---|------------------|---|---|
| | Citations 引用 | | | Publications 发表物 | | |
| Agricultural sciences (18%) 农业科学 (18%) | 2 | 1 | 1 | 2 | 1 | 1 |
| Plant and animal sciences (25%) 动、植物科学 (25%) | 4 | 2 | 2 | 5 | 2 | 2 |

Data ESISM – 2006- 2016, Web of Science

数据来源2006-2016年基本科学指标数据库 (ESI) - Web of Science

Environment/Ecology and Biology and Biochemistry: 10% each

环境/生态学、生物学与生物化学：各占10%



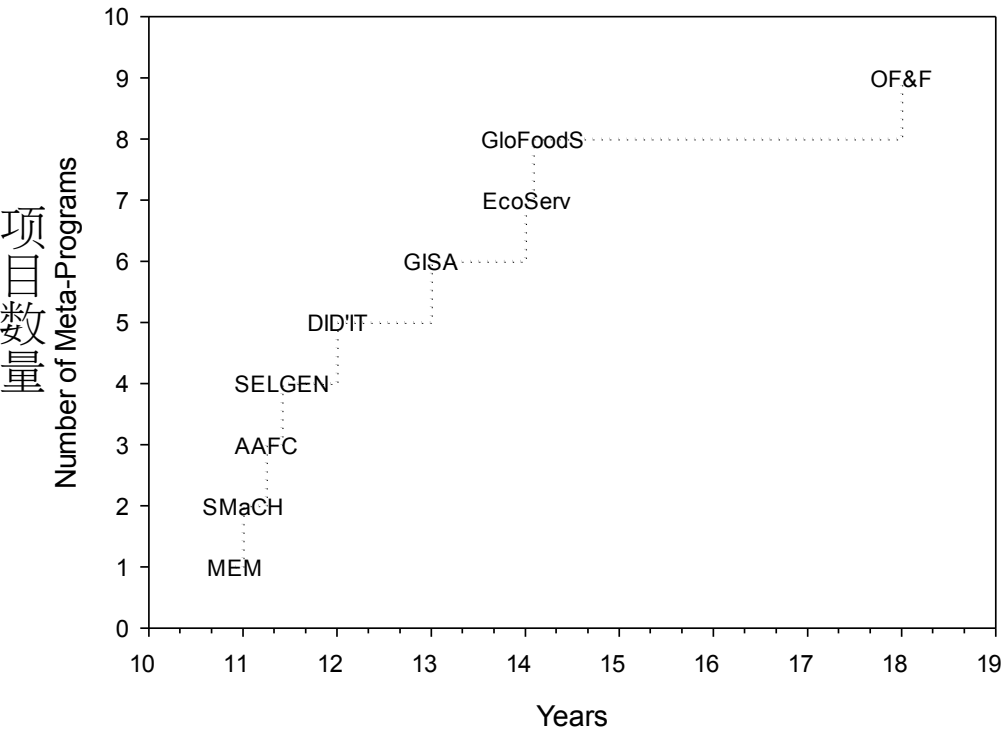
What are METAPROGRAMMES? 什么是METAPROGRAMME ?

- Inter-disciplinary programs (> 5 years) focusing on strategic themes that contribute to priorities defined by the visioning document of INRA
- MPs mobilize only part of the resources of INRA and are complementary to the disciplinary studies supported by research divisions
- In practice, the scientific staff is assigned to research divisions and MPs develop incentive actions to mobilize research scientists. MPs also contribute to identify scientific skills needed at INRA.
- For the sake of internal consistency, each MP is managed by one of the research division's heads, who ensures a cross-division mission for the management of the MP
- 跨学科科研计划（>5年），关注有助于发展INRA优先科研领域的战略性主题
- 不调动INRA所有的资源，而是对INRA现有科研部门研究的补充
- 在实践中，科研人员被分配到研究部门中，METAPROGRAMME开展激励性行动，调动科学家积极性。同时，METAPROGRAMME还用于确定INRA所需的科学技能
- 每项METAPROGRAMME由一位科研部门主管负责，确保跨科研部门研究顺利进行，以保证内部一致性

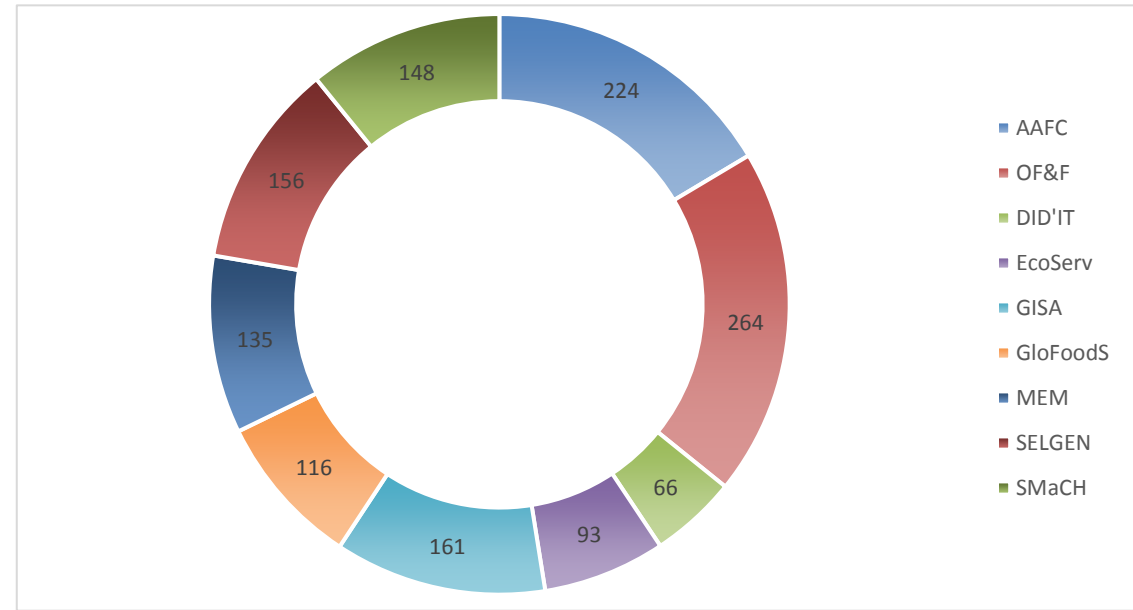


More than **900 scientists** have contributed to INRA's METAPROGRAMMES, through close to 300 projects: 60% are INRA and 40% are associated through Joint Research Units

通过近300个项目，超过900位科学家参与METAPROGRAMME：其中60%为INRA自有项目，40%通过联合研究单位运行。



Launching dates of the 9 MPs
9项METAPROGRAMME启动年份



Total number of researchers involved in each MP
每项METAPROGRAMME涉及研究者人数



METAPROGRAMMES management

METAPROGRAMME管理层

Head of MP (*also head of an INRA research division*)

Steering Committee (*6-10 scientists with expertise in the field*)

Scientific Advisory Board (*SAB, 6-12 international experts*)

Stakeholder Advisory Board (*for 2 MPs: AAFCC and ECOSERV*)

Supervised by a Scientific Director, member of the management board of INRA

Métaprogramme主管（同时是INRA院科研部门主管）

指导委员会（由6-10名在其领域知名的科学家组成）

科学咨询委员会（简称：SAB，由6-12名国际专家组成）

利益相关者咨询委员会（为AAFCC和ECOSERV两项Métaprogramme设立）

由INRA的一位科研主管（INRA领导层成员）负责监督管理



Adaptation of agriculture and forestry to climate change

农业与林业对气候变化的适应



AAFC



Meta-omics of microbial ecosystems

微生物的生态系统



M2E



Integrated management of animal health 动物健康的综合管理



GISA



Determinants and impacts of the diets

饮食的决定因素和影响



DID'IT



Agriculture and forest ecosystem services

农林业生态系统服务

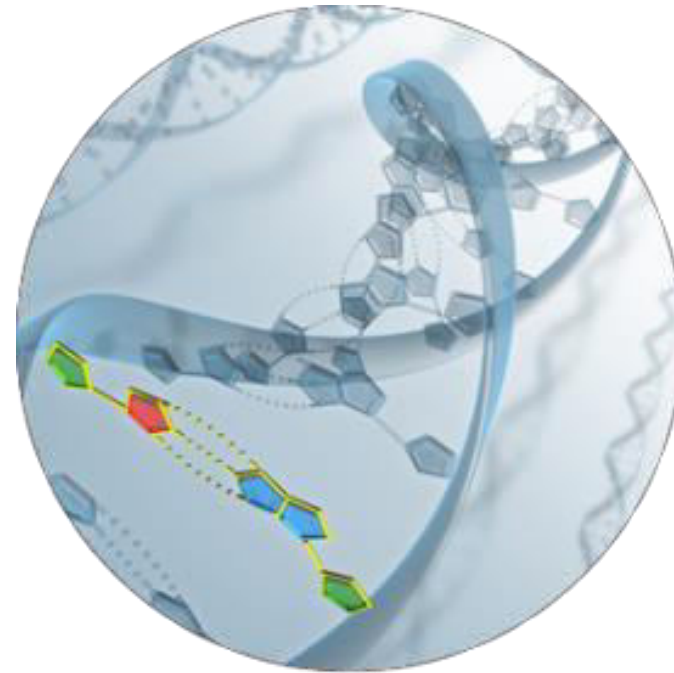


ECOSERV



Genomic selection (Bovine, Wheat, others)

基因筛选（牛、小麦和其他）



SELGEN



Sustainable management of crop health

作物健康的可持续管理



SMaCH



Transitions to global food security (CIRAD & INRA) 全球食品安全转化 (CIRAD和INRA)



GLOFOODS



Organic Farming and Food

有机耕作与食品



OF & F



3 implementation plans

3项实施计划

- ❖ To reinforce **partnership with higher education**
加强与高等教育的合作
- ❖ To enlarge social and economic partnership and develop **innovation**
扩大社会和经济合作、加强创新
- ❖ To strengthen our **international strategy**
加强国际策略





Thank you!

谢谢！



French National Institute for Agricultural Research

法国农业科学研究院