

Innovations in and around the hatchery

孵化室的创新

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孵化室的创新

- Pre-storage heating of hatching eggs
- 前期储存时，为待孵化的鸡蛋预先供热
- Incubation and chick quality: eggshell temperature
- 孵化与雏鸡质量：蛋壳温度
- Care for young chicks 雏鸡的养护
 - Hatchbrood and Hatchcare (Hatchtech) 孵化与养护（孵化技术）
 - Patio and X-treck (Vencomatic 创造最佳收益的系统)



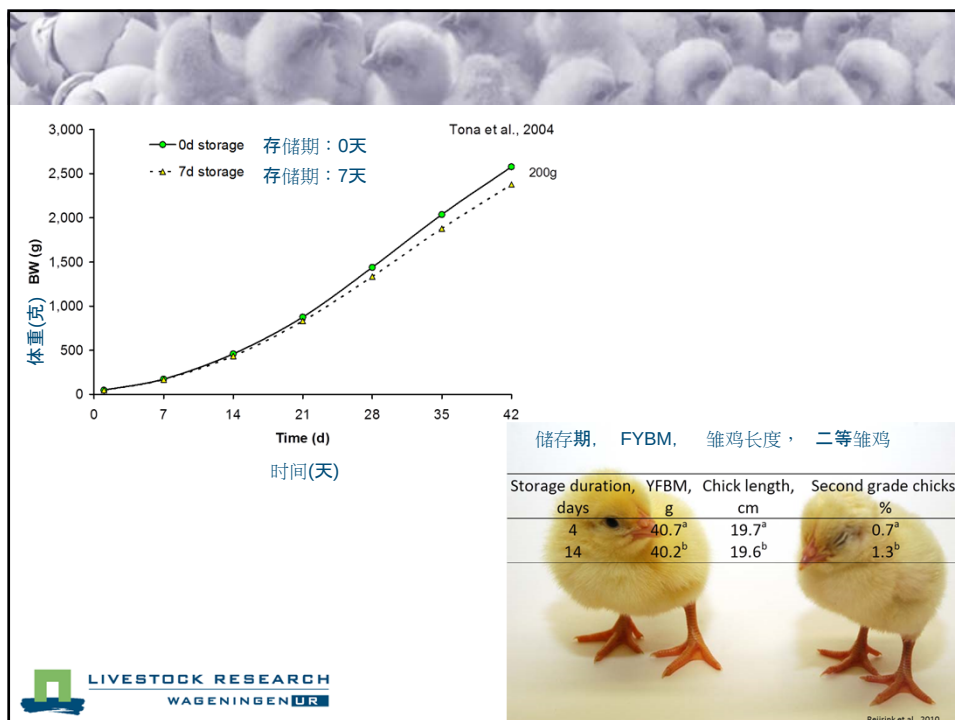
Embryo vitality in long stored eggs 存储期较长鸡蛋的胚胎活性

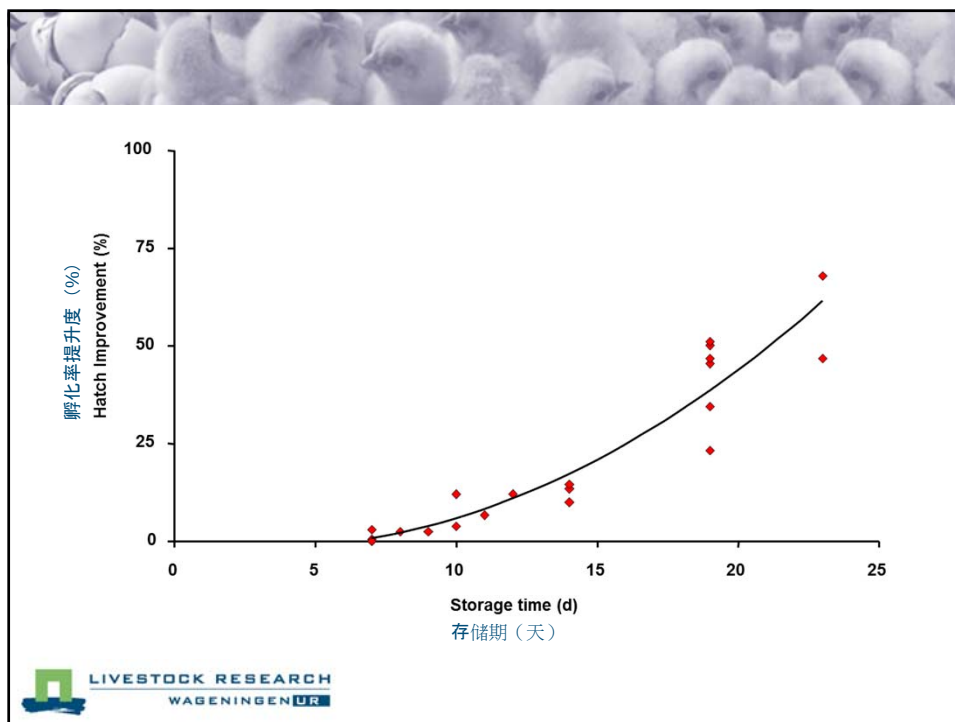
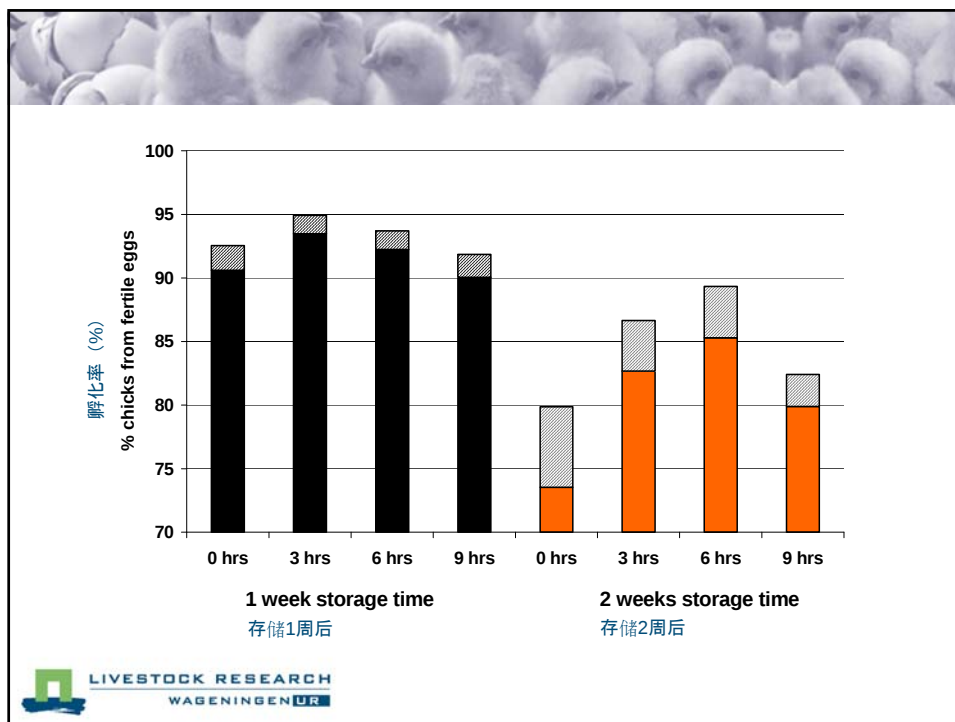
To survive storage, the embryo needs a certain degree of development (Fasenko et al., 2001):

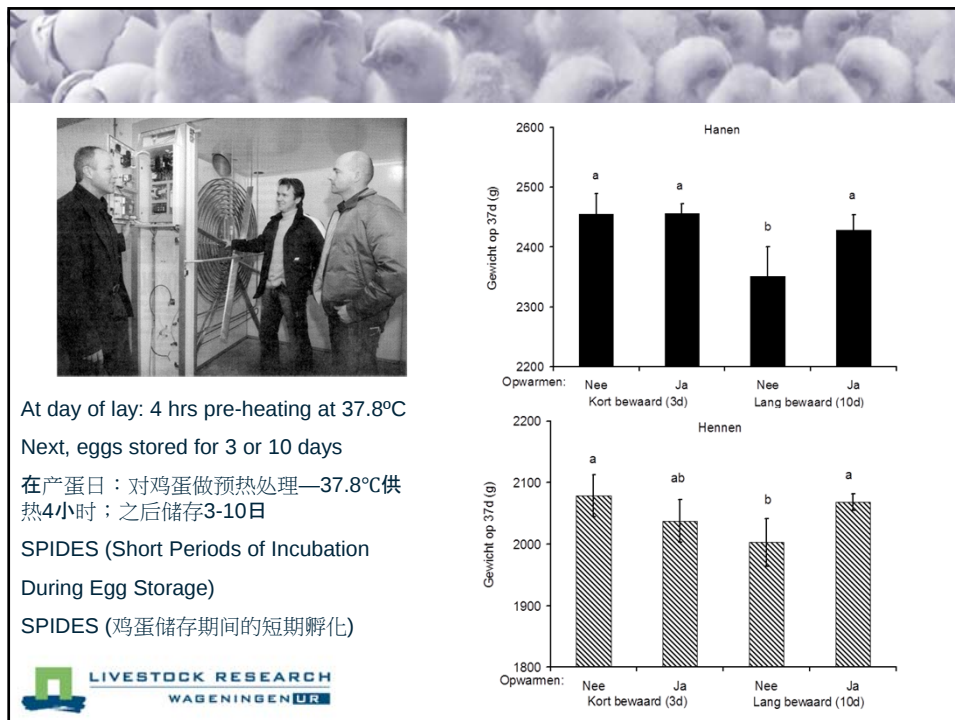
胚胎需要一定的发育时期

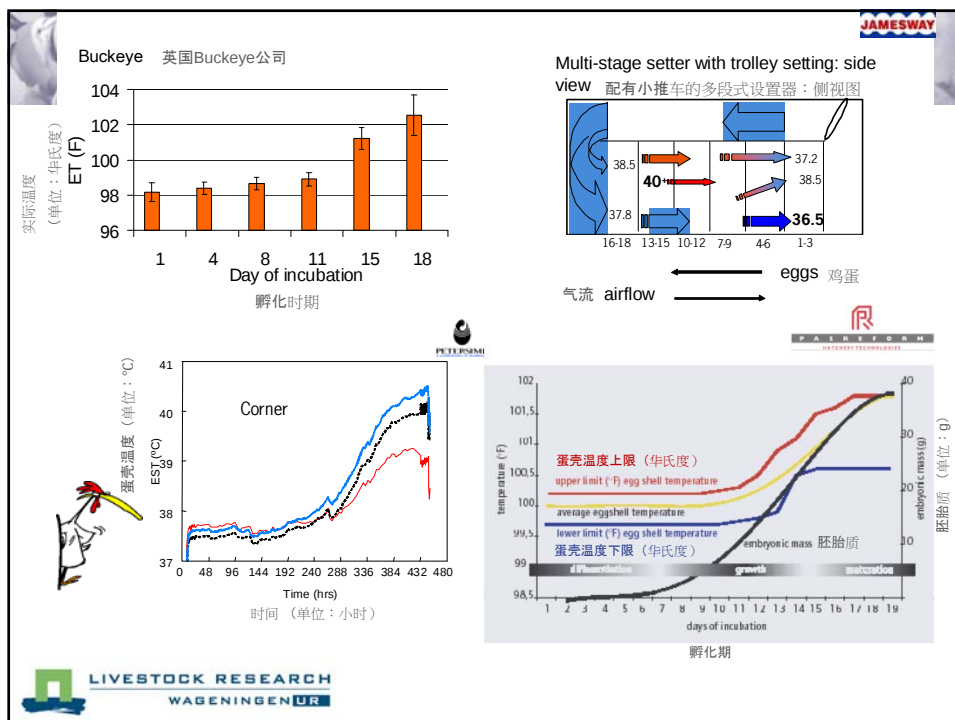
- 2-layer stage (60.000 – 80.000 cells; stage X)
- 第二个发育期 (60000 – 80000个体细胞的阶段: 阶段X)
- 3 – 6 hrs of pre-heating at incubation temperature BEFORE storage
- 鸡蛋送存储前先进行3-6小时的预供热
- This technique would increase embryo vitality
- 该技术会提高胚胎活力
 - small scale trial 小规模实验
 - large scale field trials 大规模实地测试
 - broiler breeder experiment 肉鸡种鸡实验

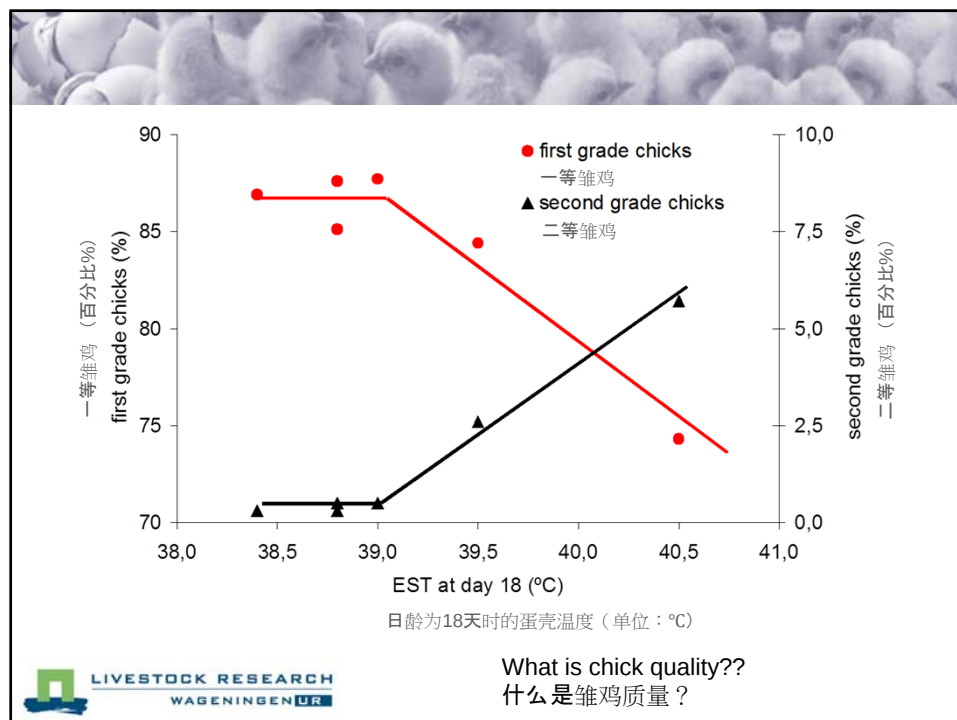
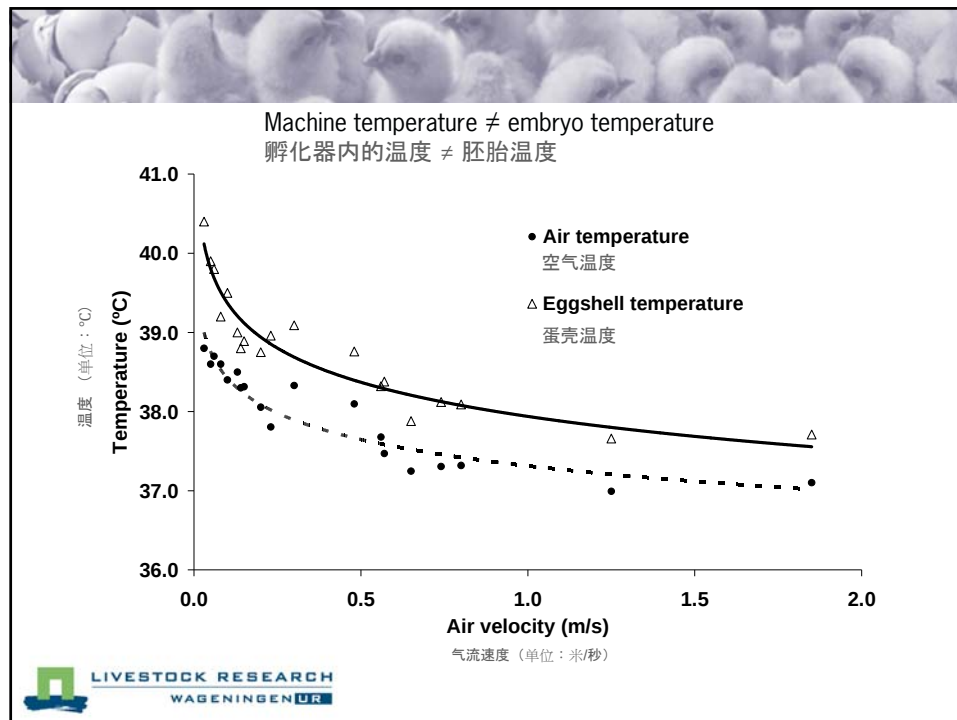
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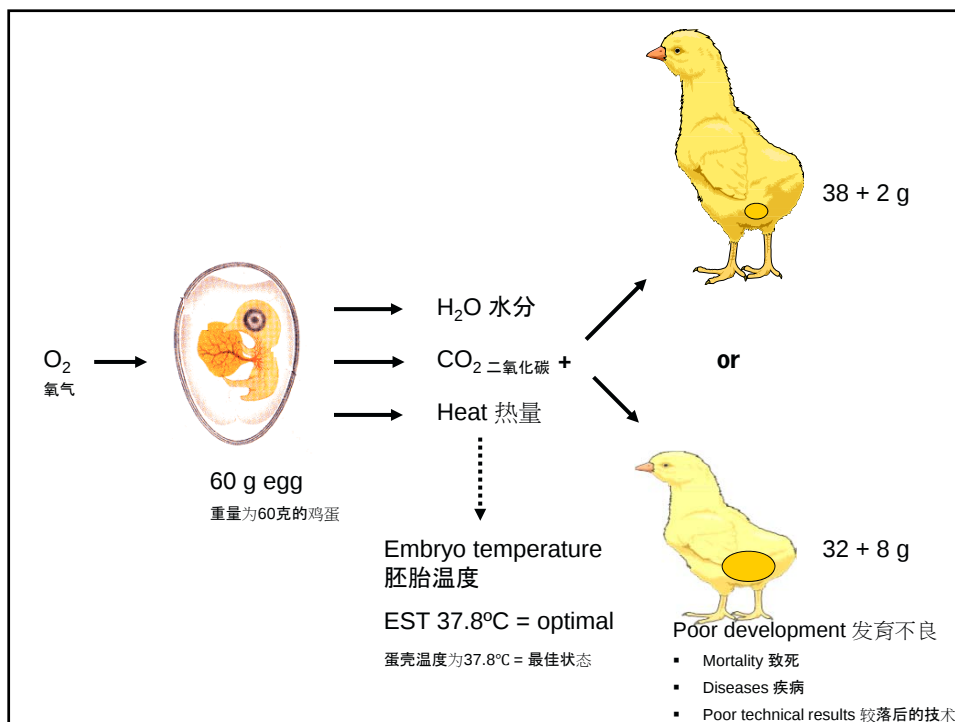
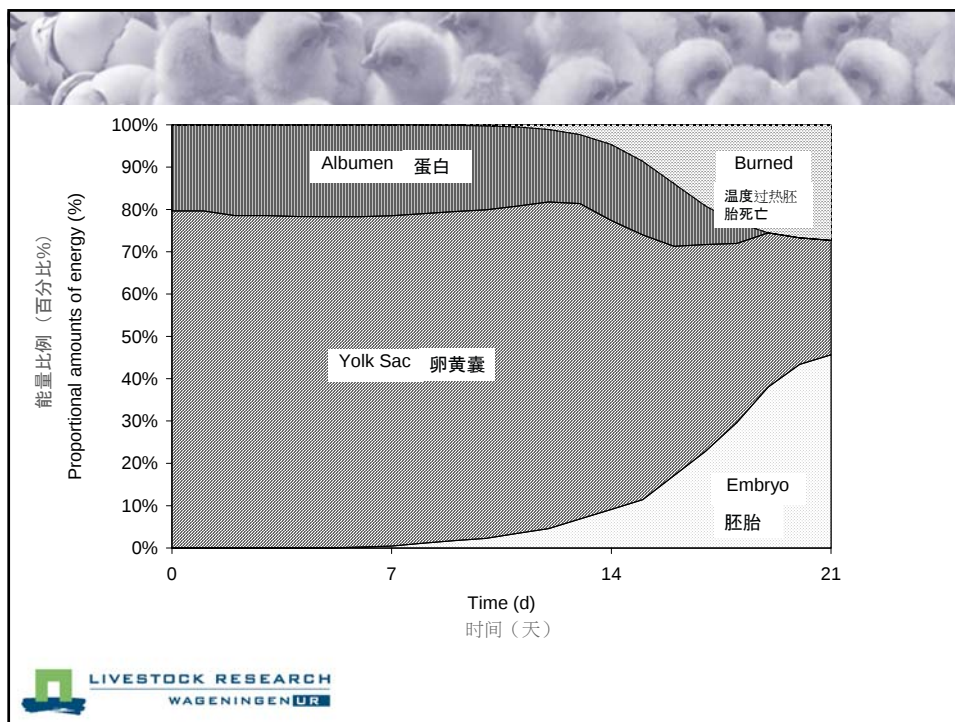


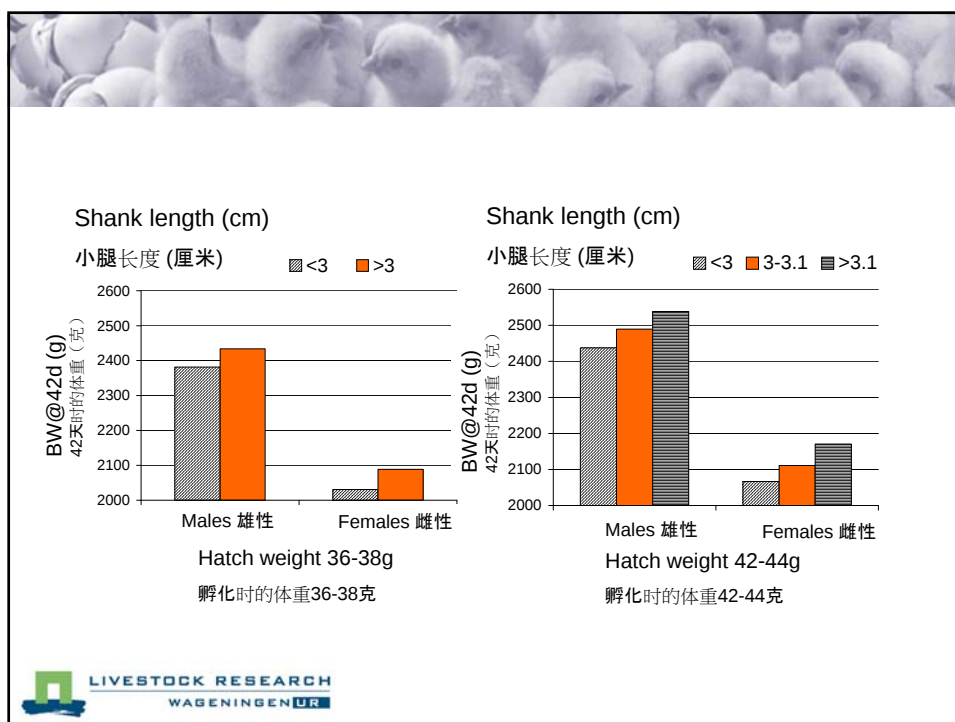
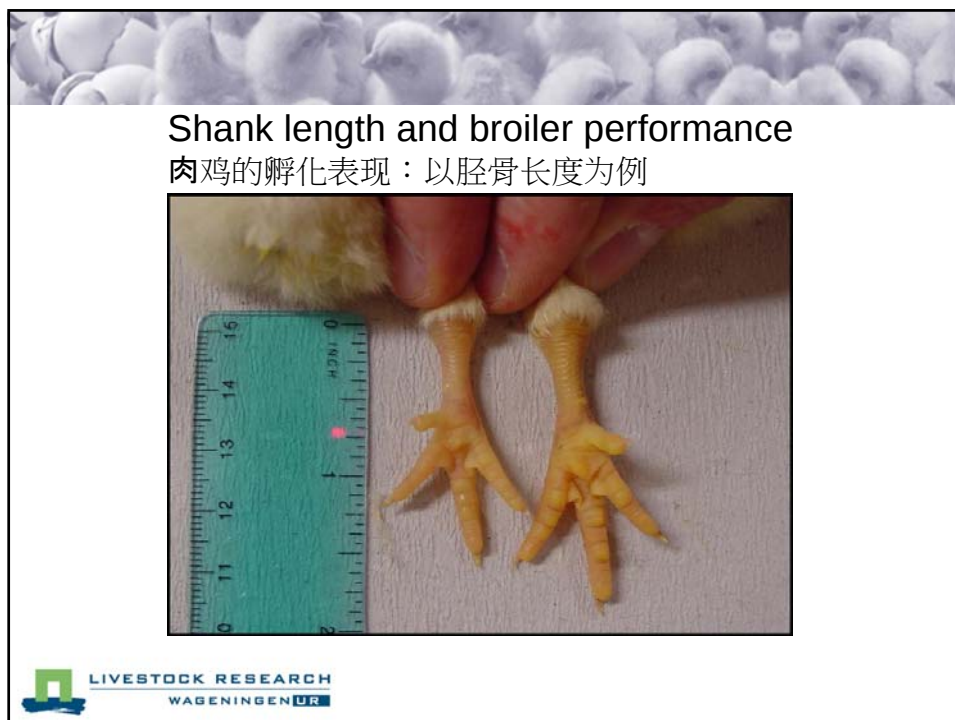


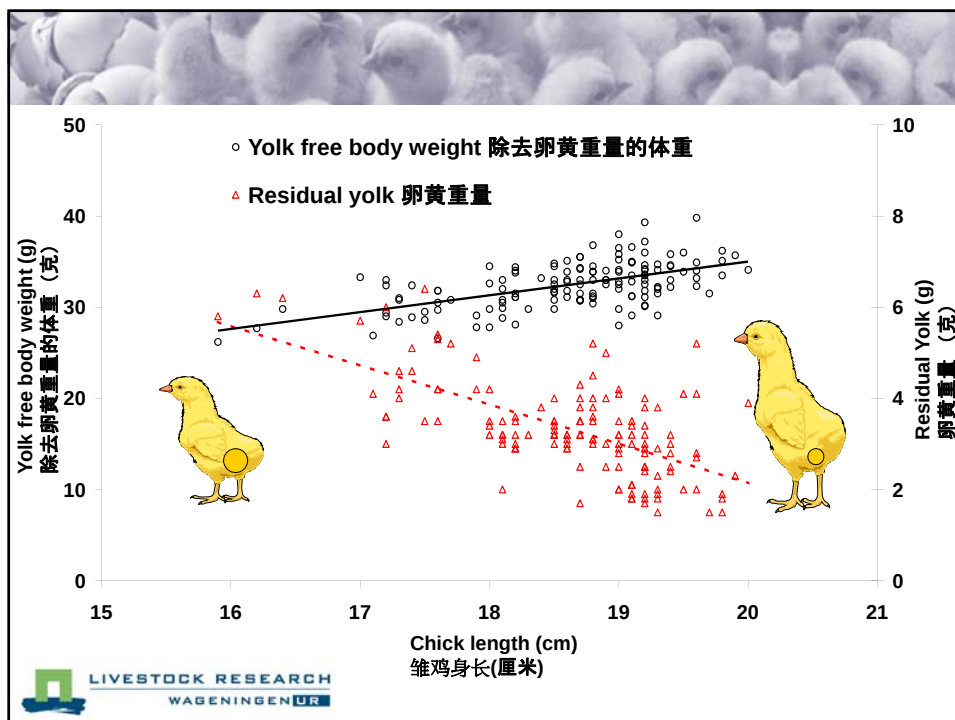


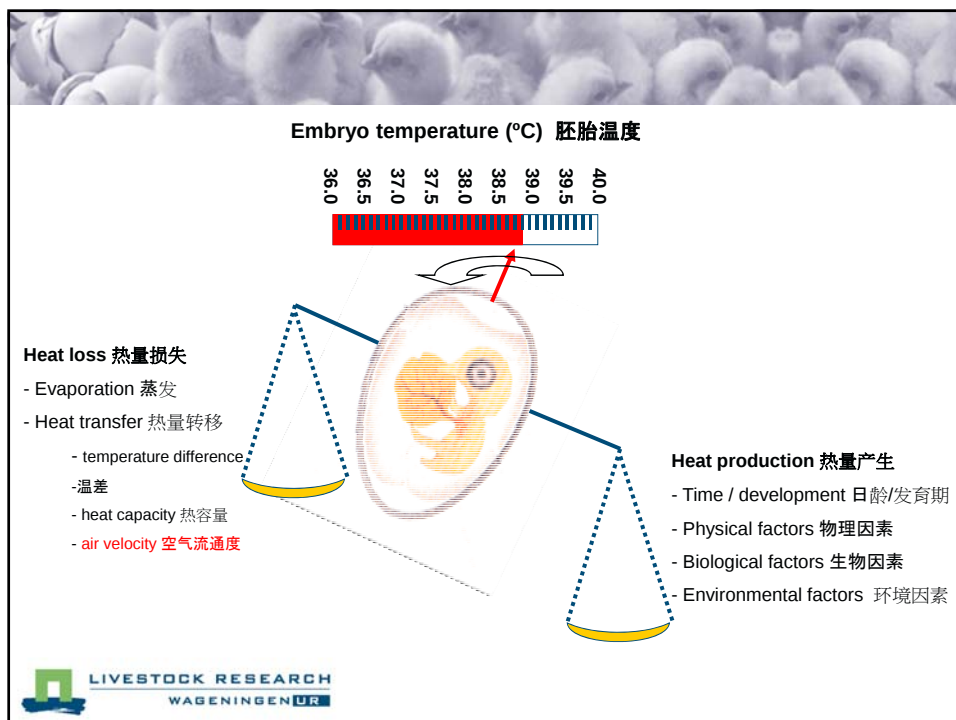


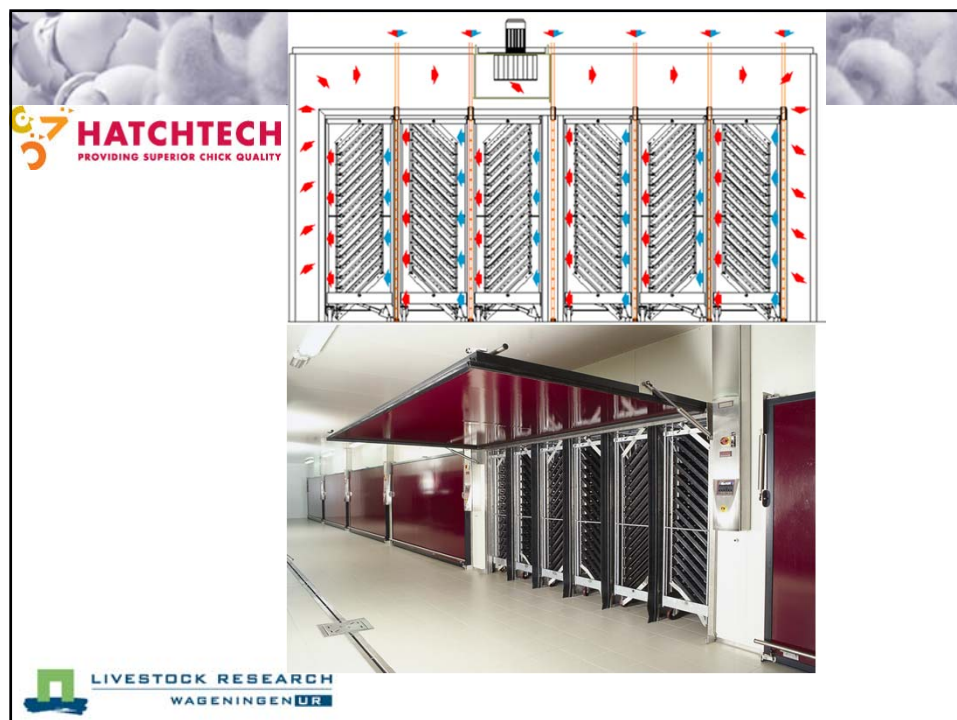
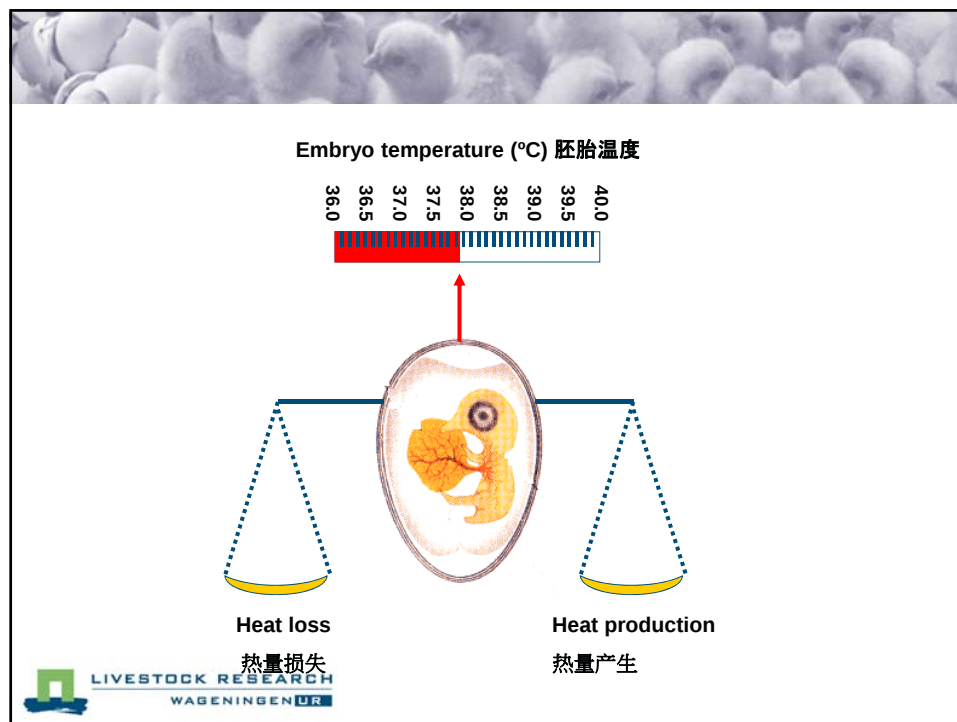




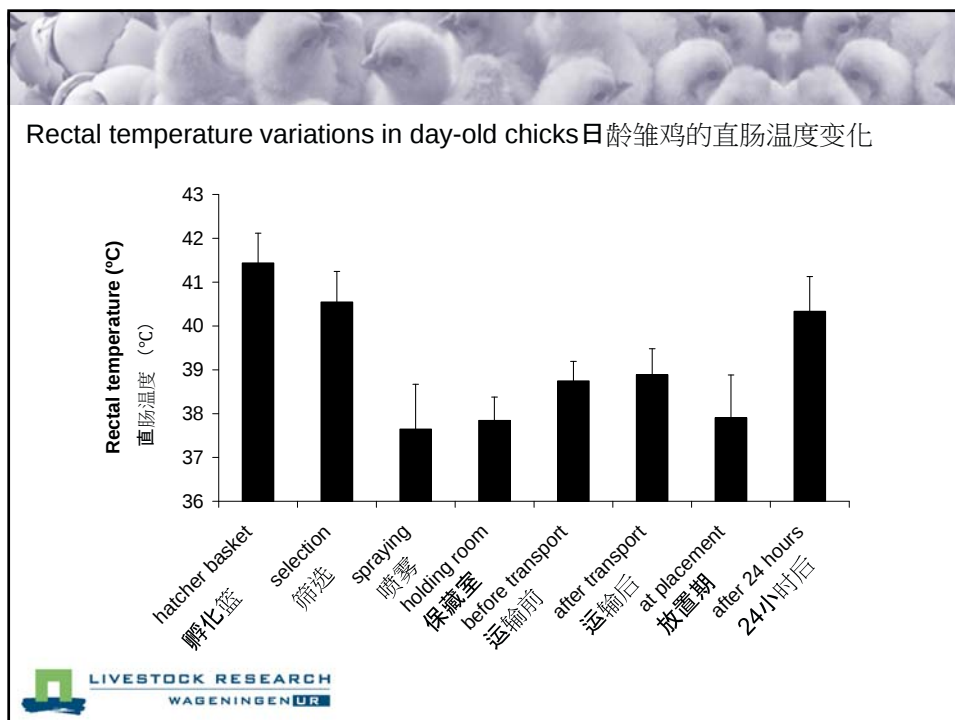


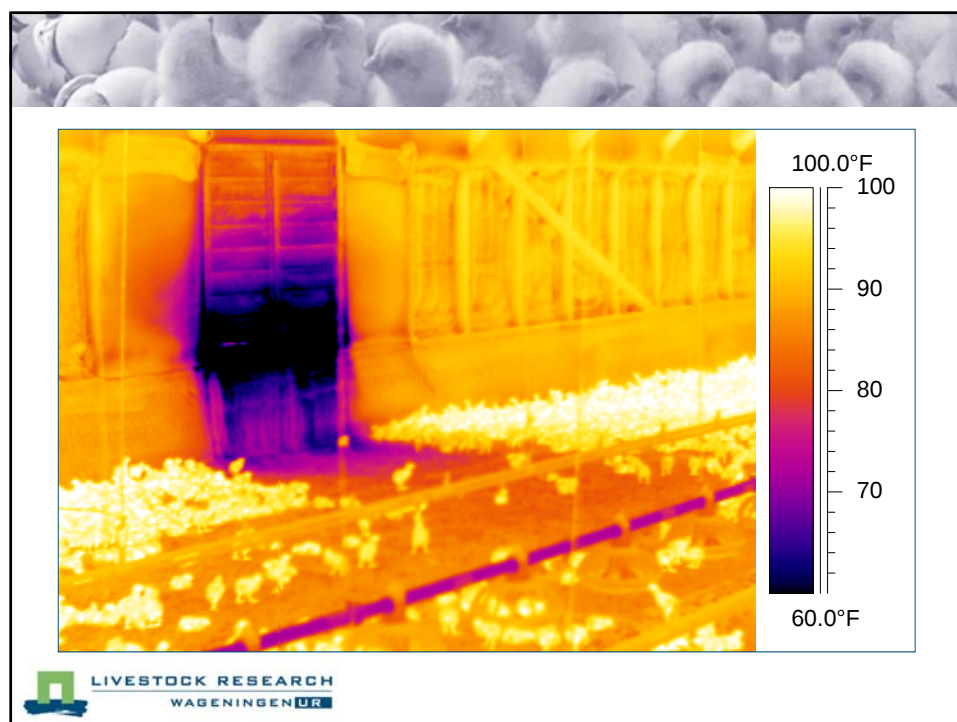
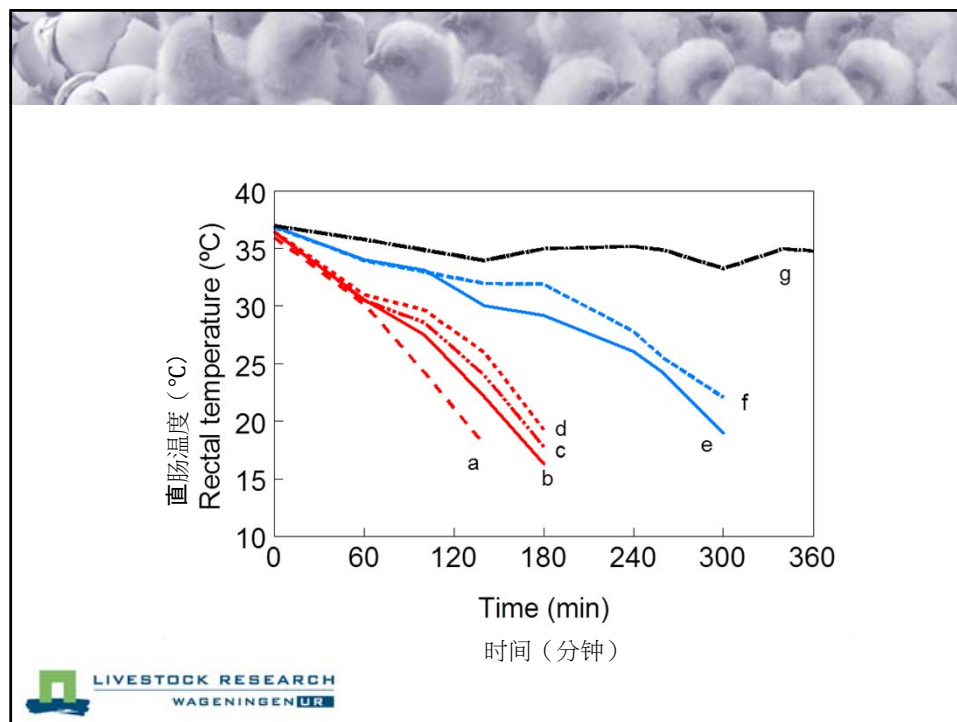


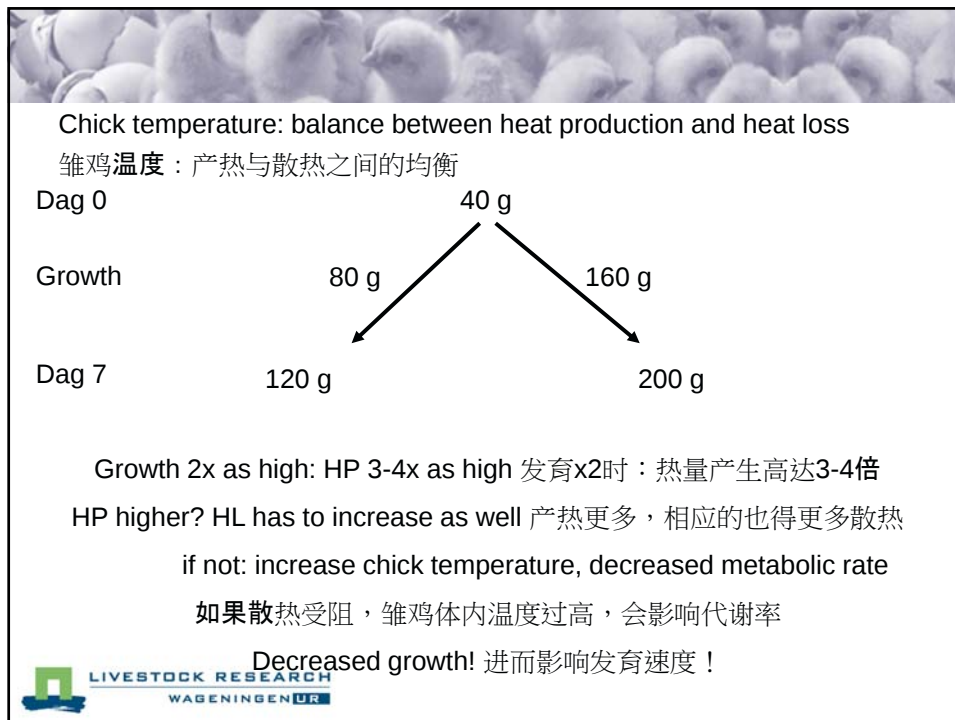












Hatchbrood broilers 肉鸡孵化

All efforts made in the hatchery are lost when chicks are placed at the farm under wrong conditions!!

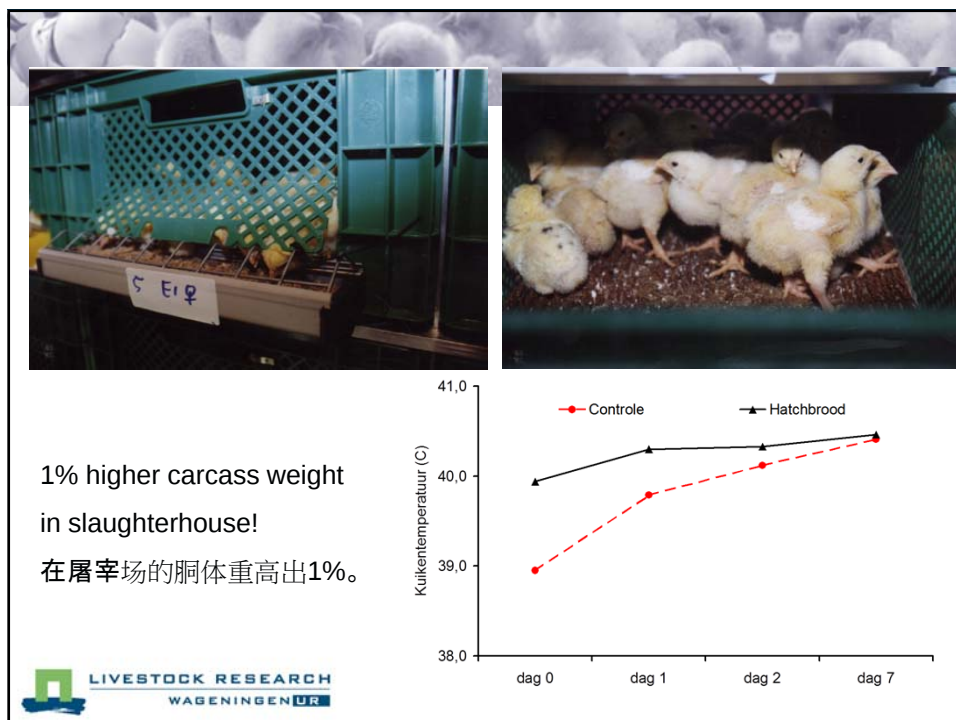
如果雏鸡在养鸡场得不到正确的照料，那么之前在孵化室所做的所有努力就都白费了。

- First week high care unit 第一周：应待在高质量护理室
- Feed and water available 确保充足的饲料和水
- Chick temperature: measured and "set" at 40,5°C 测量雏鸡的体温，保证在40.5°C

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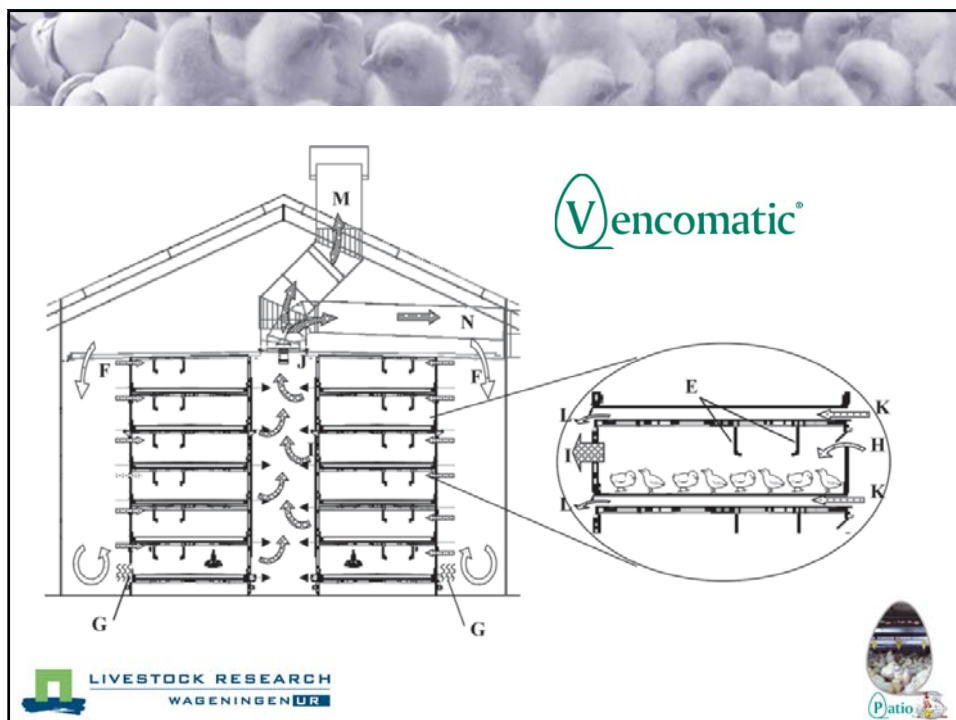
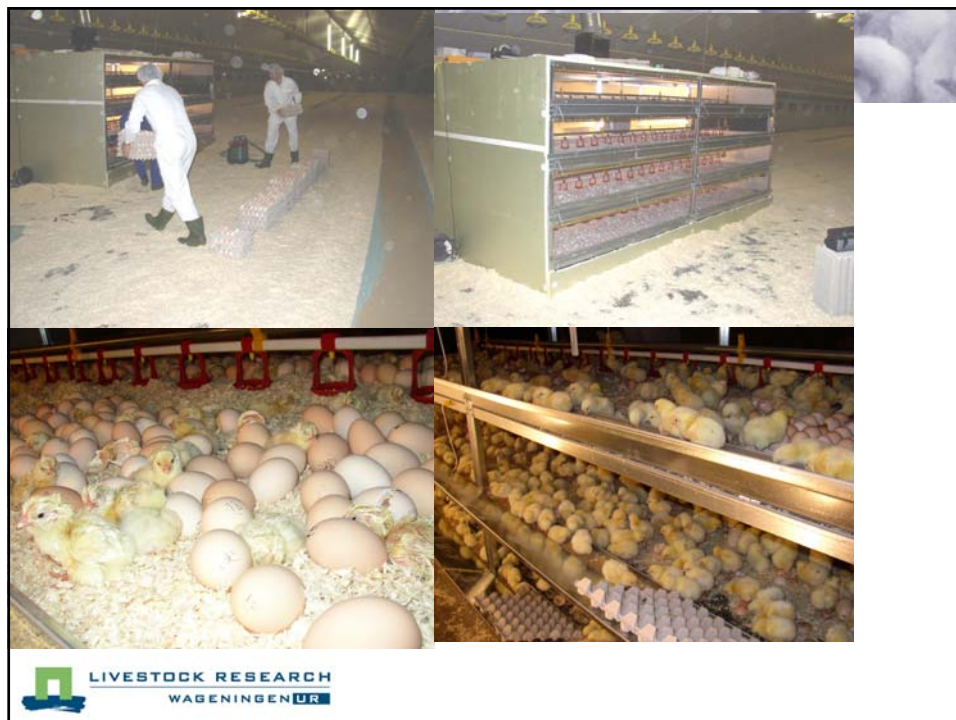




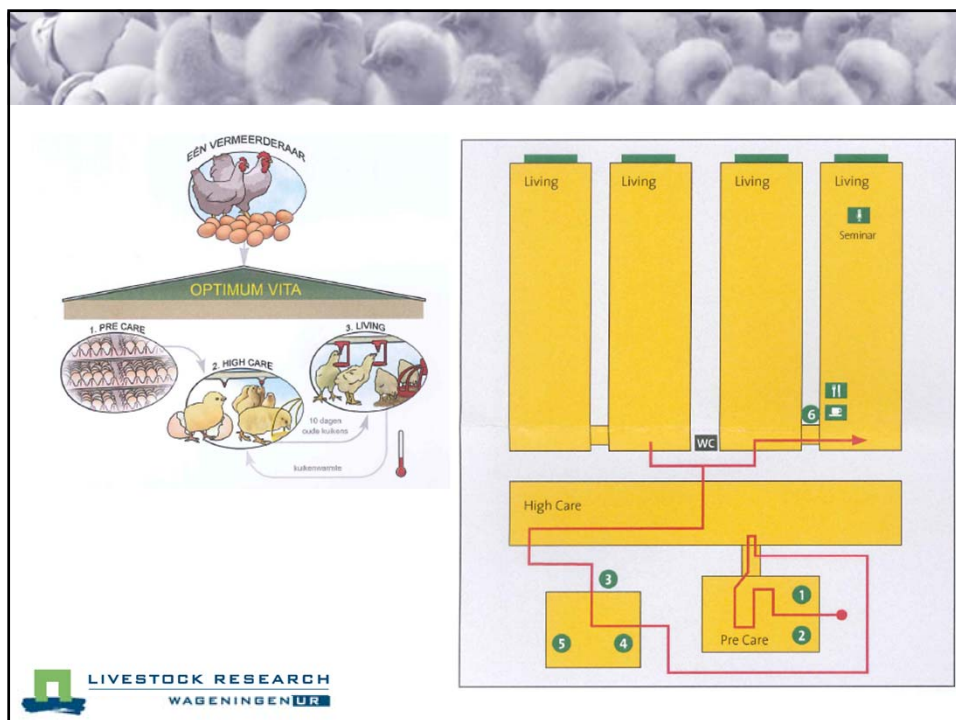
















Innovations in and around the hatchery can be very successful
孵化技术的创新可以很成功

Technical inventions should support the biological processes
技术发明应该对孵化的生物过程起到支持的促进作用

- Never compromise on egg and chick quality
鸡蛋和雏鸡质量问题是不容妥协的
- Measure and adjust eggshell temperature
应该测量和调整蛋壳温度
- Measure and adjust chick temperature
应该测量和调整雏鸡的体温



Thanks for your attention!!
谢谢！

