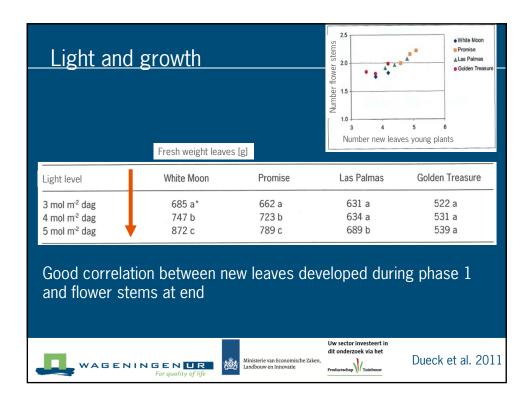
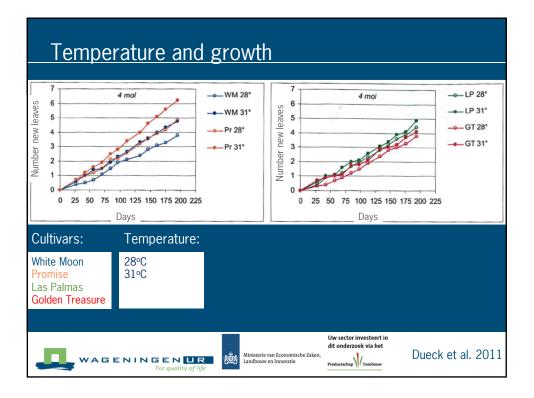
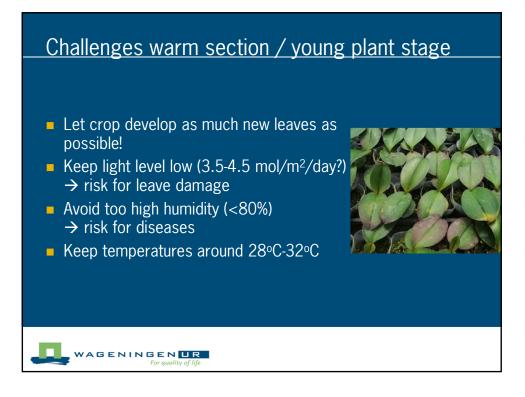


Fase	Young plants Phase 1a	Phase 1b	Flowering stage Phase 2a	Phase 2b
PAR sum (mol PAR/m² day)	3-3.5	→ 4-4.5	Phase 2a 6-7	5.5-6.5
Temperature (ºC)	27-29	27-29	18-19 —	19-21
Period (weeks)	12-14	12-14	6 - 8	8 – 12
Plants per area (pots/m²)	80	60-45	45-37	37
Optimum light levels				37

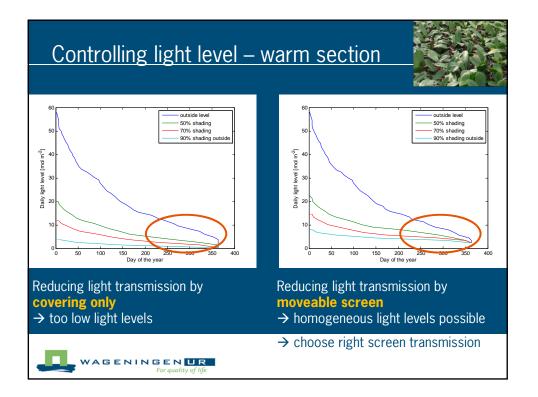


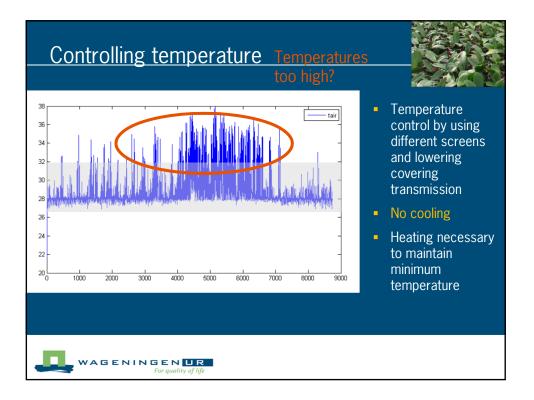


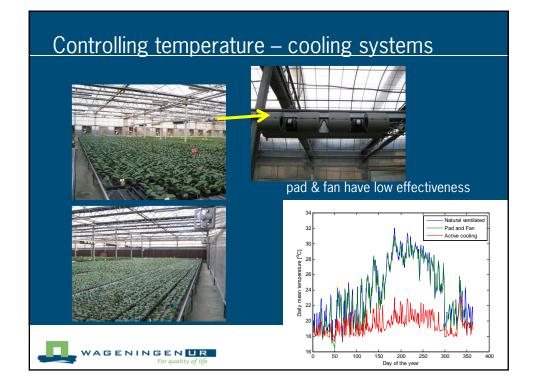


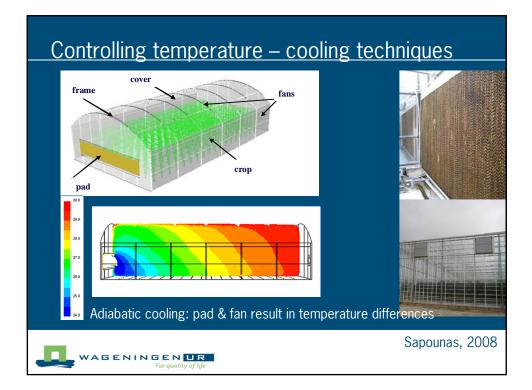


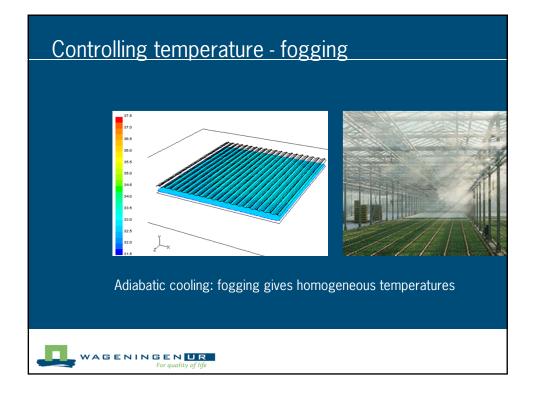


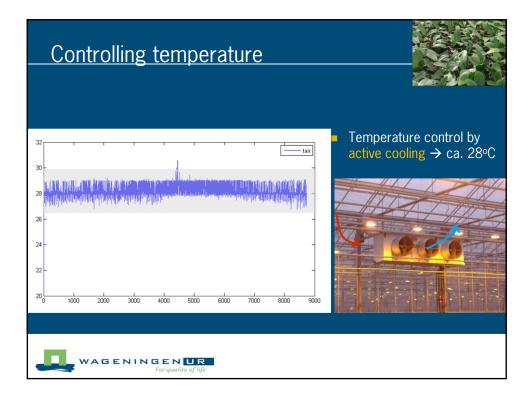


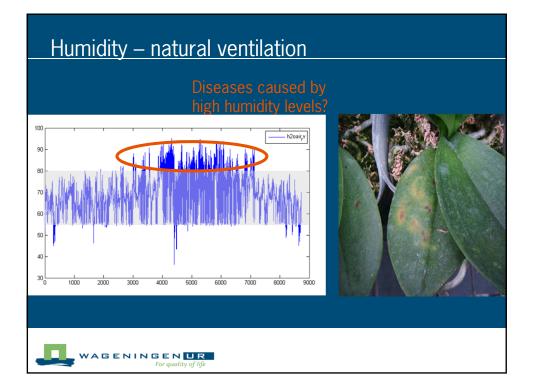












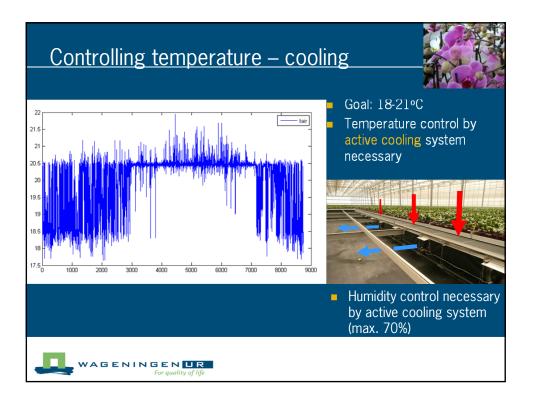
•	 Active cooling system can be used for dehumidification 								
	Maximum relative humidity (%)	Energy for dehumidication (GJ)	Heating demand (GJ)	Cooling demand (GJ)	Total energy demand (GJ)				
	65	1.02	1.66	0.15	2.8				
	70	0.67	1.33	0.20	2.2				
	75	0.39	1.07	0.23	1.7				
	80	0.20	0.91	0.26	1.4				
•	Active cool	umidification if ∆e ing if ∆T inside-ou control by natura	utside < 3 K	de < 5 g m ⁻³					
•									

Challenges cold section

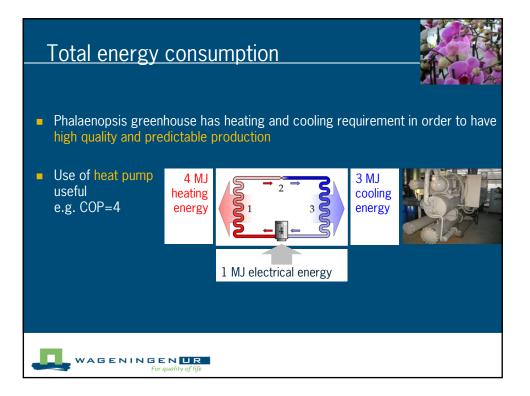
- Keep temperatures low to induce predictable flowering (18-21°C)
- Keep humidity low to decrease risk of diseases (<70%)
- Control light level (6-8 mol/m²/day?)

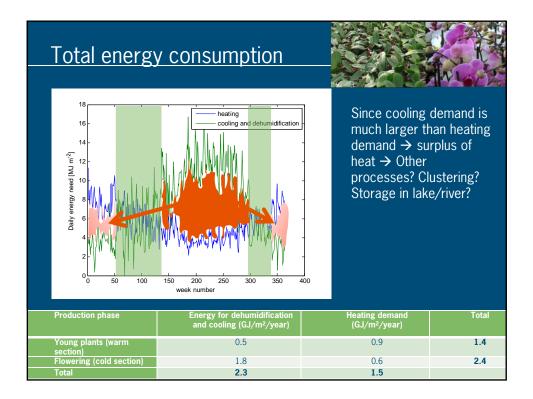


WAGENINGEN UR For quality of life









Water use efficiency Save water with right greenhouse design and climate equipment. Collect rain water (rainfall in Taiwan ca. 1700 mm, consumption 800-1300 mm depending on system and crop) Recirculate irrigation water Use water saving irrigation system

