CONCESSOR SEED DEVELOPMENT®

Presentation

Torsten Nilsson

Managing Dir. Nelson Seed Development

Owner of Nelson Garden, The leading Seed and Garden company in the Nordic countries for hobby gardeners

33 million Euro in turnover

Started in 1933 by Torsten Nilsson's father

Managing director Nelson Garden 1978 - 2013





Nelson Seed Development AB is a company within the Nelson Garden Group.



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The Kamprad Family Foundation is part-owner through their investment company Entreprenörinvest Sverige AB. Ingvar Kamprad is the founder of IKEA.





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Horizon 2020 European Union funding for Research & Innovation



Nelson Garden Group, development





An innovation which can make a big, big difference for the home garden seed market and grower



Competitive profile

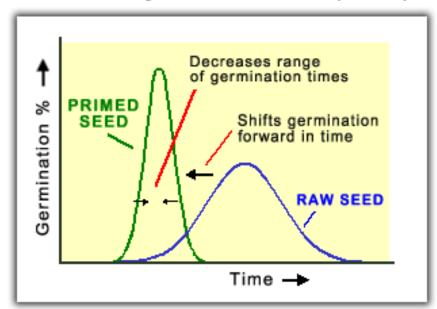
I will tell you about vitalisation, a new unique method of priming

- Vitalisation has all the benefits of traditional priming but none of its negative effects.



Effects

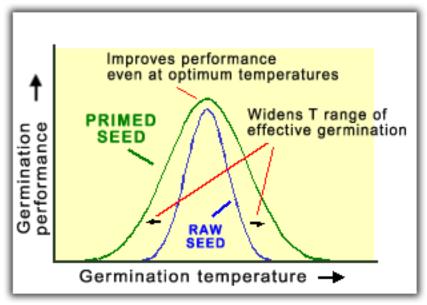
- Faster and more uniform germination
- Increased germination capacity





Effects

- Stress tolerance: Germination possible under a wider range of conditions (cold/warm, dry/wet)
- More vigorous seedlings
- Break seed dormancy





Much quicker and safer establishment





- Much quicker and safer establishment
- More vigorous seedlings



- Much quicker and safer establishment
- More vigorous seedlings
- Stronger weed competition



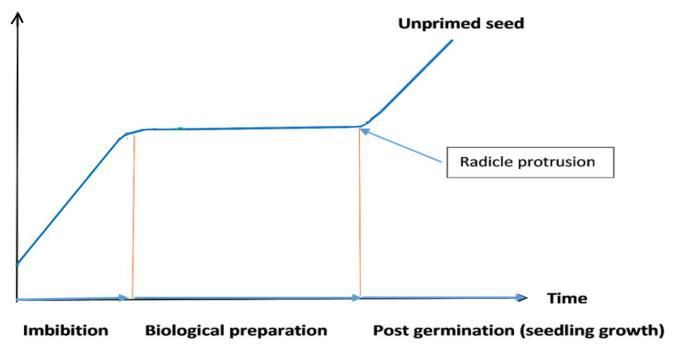
- Much quicker and safer establishment
- More vigorous seedlings
- Stronger weed competition
- **Earlier** and larger harvest





Germination process for unprimed seeds

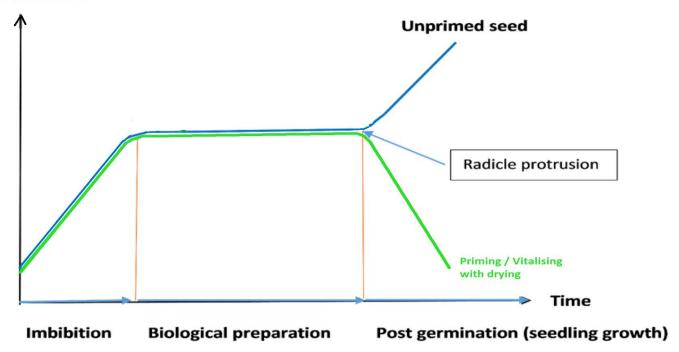






Process of priming / vitalisation

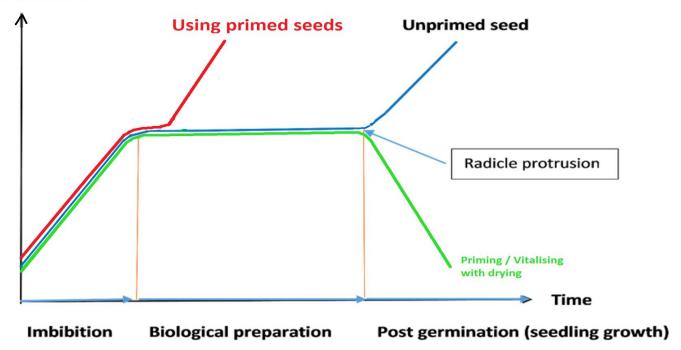
Seed moisture





Germination process for primed / vitalised seeds

Seed moisture





The product



Registred trademark worldwide for the product that you can use



OPTIGROW Effective for most species

- Patented for all kind of seeds
- Tested at nearly 90 species and over 200 varieties
- Vegetables, field crops, forestry, Forage and Ornamental species (flower seeds)

PhD Tongyun Shen R & D Manager



OPTIGROW Competitive profile

Can be used for organic seeds - without any chemicals

Advantages of Vitalising

- Low cost
- Fast process (only some days)
- No chemicals added
- **Excellent storability**

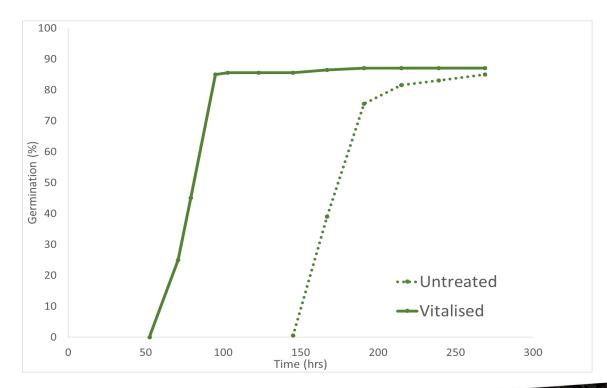
Traditional priming

- Unfavorable price level
- Time-consuming process (1-5 weeks)
- Negative impact on storability



OPTIGROW Vitalisation effect in sweet pepper

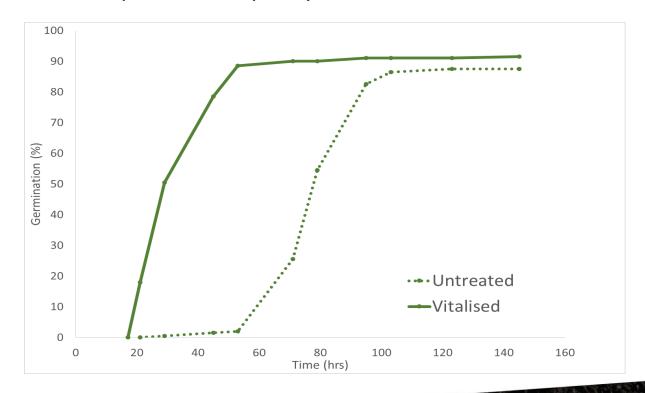
Germination speed and capacity





OPTIGROW Vitalisation effect in tomato

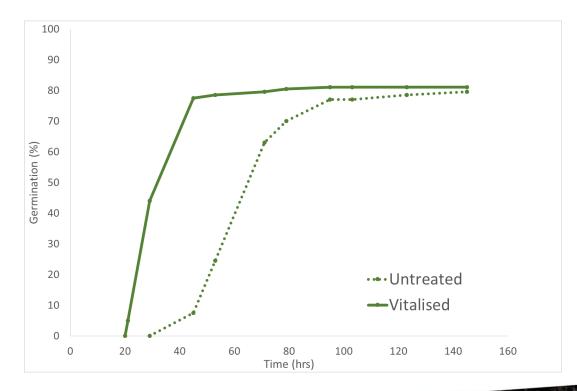
Germination speed and capacity





OPTIGROW Vitalisation effect in carrot

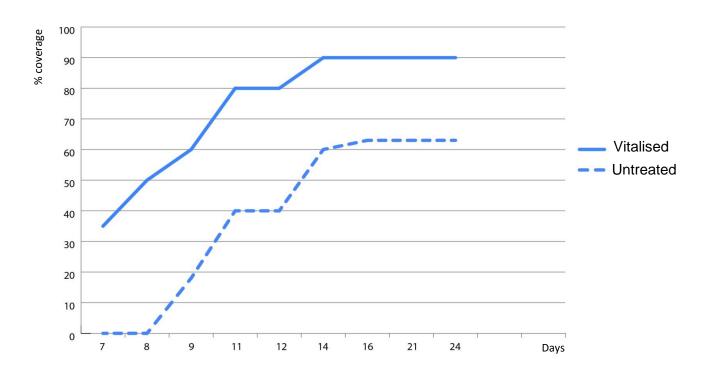
Germination speed and capacity





OPTIGROW Field coverage

Kentucky bluegrass, poa pratensis





OPTIGROW Harvest control Ruccola



Harvest 61 %



OPTIGROW Harvest control Spinach



Harvest 153 %



OPTIGROW Harvest control Parsley



Harvest 180 %



OPTIGROW Improved field establishment and harvest







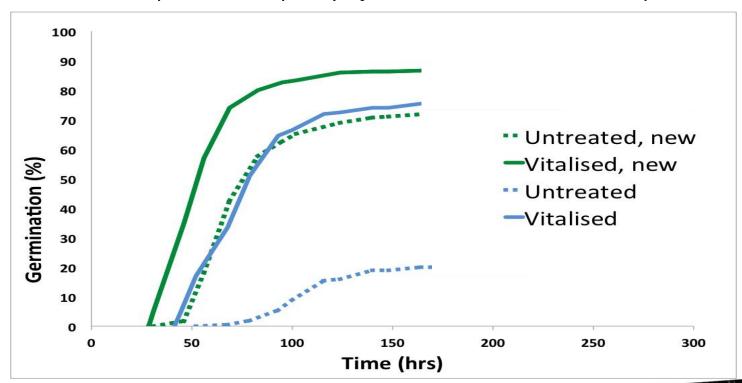






OPTIGROW Shelf-life results for onion

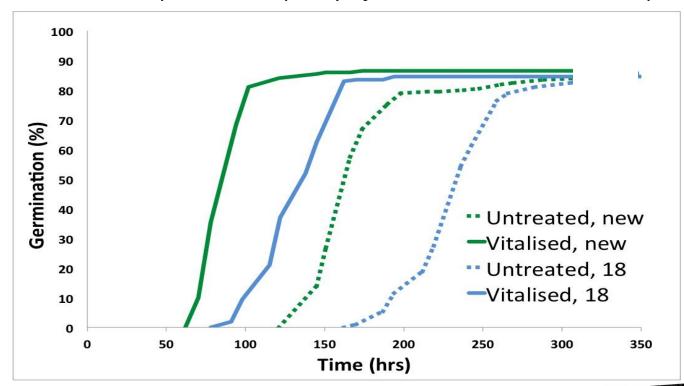
Germination speed and capacity after 24 months in room temperature





OPTIGROW Shelf-life results for sweet pepper

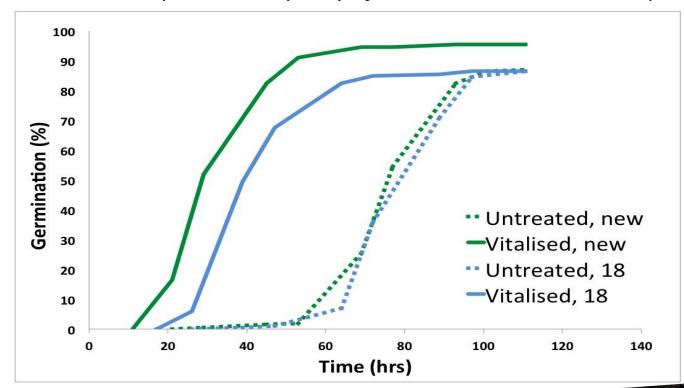
Germination speed and capacity after 18 months in room temperature





OPTIGROW Shelf-life results for tomato

Germination speed and capacity after 18 months in room temperature





OPTIGROW Shelf-life.

Outstanding results compared to competitors

Test for storage potential by controlled deterioration, performed by one of Nelson Seed's customers

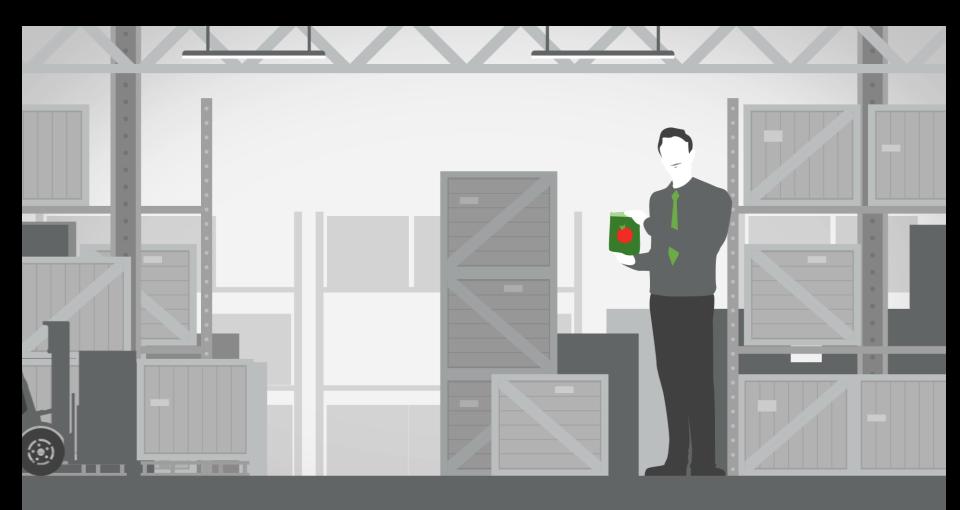
	Carrot		Tomato		Onion		Pepper	
	1st	Final	1st	Final	1st	Final	1st	Final
Untreated	40%	83%	40%	58%	73%	86%	10%	56%
Vitalisation	42%	81%	63%	72%	74%	88%	32%	43%
Primed	24%	39%	1%	1%	14%	18%	1%	3%



Business – options

- Initial test vitalisation on your own seed
- Vitalisation by sending seeds to Nelsons facilities in Sweden
- In-house vitalisation in seed companies own site, buy or lease the equipment





World introduction for the hobby garden sector

- Will be availebel in some steps
- Introduction to the market for the season 2018
- By a few companies around the world



Summary

- Largest step for home garden since intro of F-1 hybrids
- **S** Outstanding, unique seed quality
- Environmentally friendly process without chemical
- **Economic growing and profitable business**
- New logistic, time- and cost advantages

