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Transitioning to seed-based production with Phylos Production-Ready Elite Seeds



UNLOCKING THE POTENTIAL OF CANNABIS



Competitive advantages of seed-based production

Reduction and repurposing labor	Reduction in non- canopy space	Targeted breeding
 Seeds don't require 	 Seeds don't require 	 Pheno hunts are replaced
cloning operations	pre-veg space (domes in	with data-sharing to inform
 IPM requirements reduced by starting from 	low light)	agronomic advances via
	 Seeds don't require 	marker-assisted selection
clean seeds	mother rooms	Genetic development
		occurs cycle-by-cycle

 Unicorn searches for trendy flavors becomes boutique

Sea change opportunity real world analysis*

Convert 50% of total production to seed-based production, resulting in more high end flower and lower overall cost.

- FACILITY OPTIMIZATION: Increases flower output by converting mother and overstock rooms to production.
- IMPROVED PRODUCT: Uniform, high quality flower with ranges near 30% THC, increased vigor and yield and strong aromas.
- OPERATIONAL EFFICIENCY: Reduces staff allocated to cloning and mother care. Minimal capital expenditure required.
- LOWERED RISK and MITIGATION COST: All seed rooms start HLVd free. Cross-contaminated rooms restarted in 24-48 hours by sterilizing and replanting with clean seed.

* Phylos partner calculation of impact of their transition to seed



Increased production by 6%



Decreased labor cost by 26%



Decreased cost per kg by 18.5%



Increased gross margin by 7%

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F1 seeds produce uniform crops in cannabis just like big ag

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Trait improvements in cannabis are focused on THC levels. Phylos combined genomics and modern breeding techniques from the agriculture industry to jump start and accelerate cannabis genetics development.



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