Creating Cows for the Future

Ms. Anneke Talsma, MBA

Sales Team Leader

Alta Genetics International

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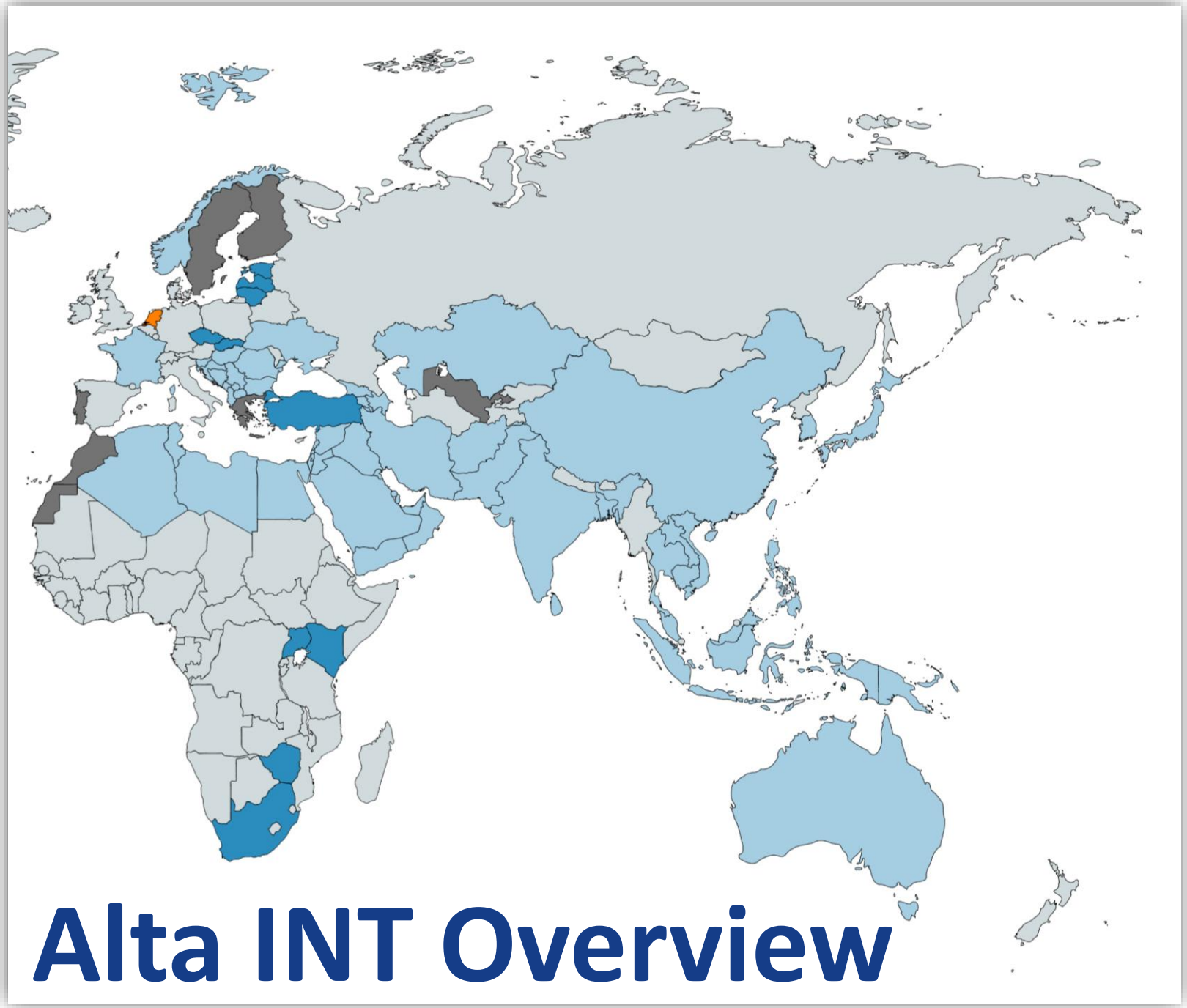
Euroopa Liit maaelu arenguks

Euroopa Maaelu Arengu Põllumajandusfond: Euroopa investeeringud maapiirkondadesse



Alta INT Overview

Current Countries

- Estonia
- Latvia
- Lithuania
- Czech Republic
- Slovakia
- Turkey
- Kenya
- South Africa
- Uganda
- Zimbabwe

Previous Experience

- Sweden
- Finland
- Greece
- Portugal
- Morocco/Western Sahara
- Uzbekistan

Alta INT Countries

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What We Do

Alta builds long-term relationships by creating value for our clients. We improve individual herd profitability by delivering trustworthy genetics and high quality reproductive and management services.

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Cows for the Future

- Production
- Efficiency
  - Productive Life
  - Feed Efficiency
  - Feed Saved

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Productive Life

- Months in milking herd before removal
- Each +1.0 point PL means one more month in milking herd
- PL receives 22% of total emphasis in lifetime net merit dollars (NM$, all breeds) and 14% of total emphasis in Total Performance Index (TPI, HOL)

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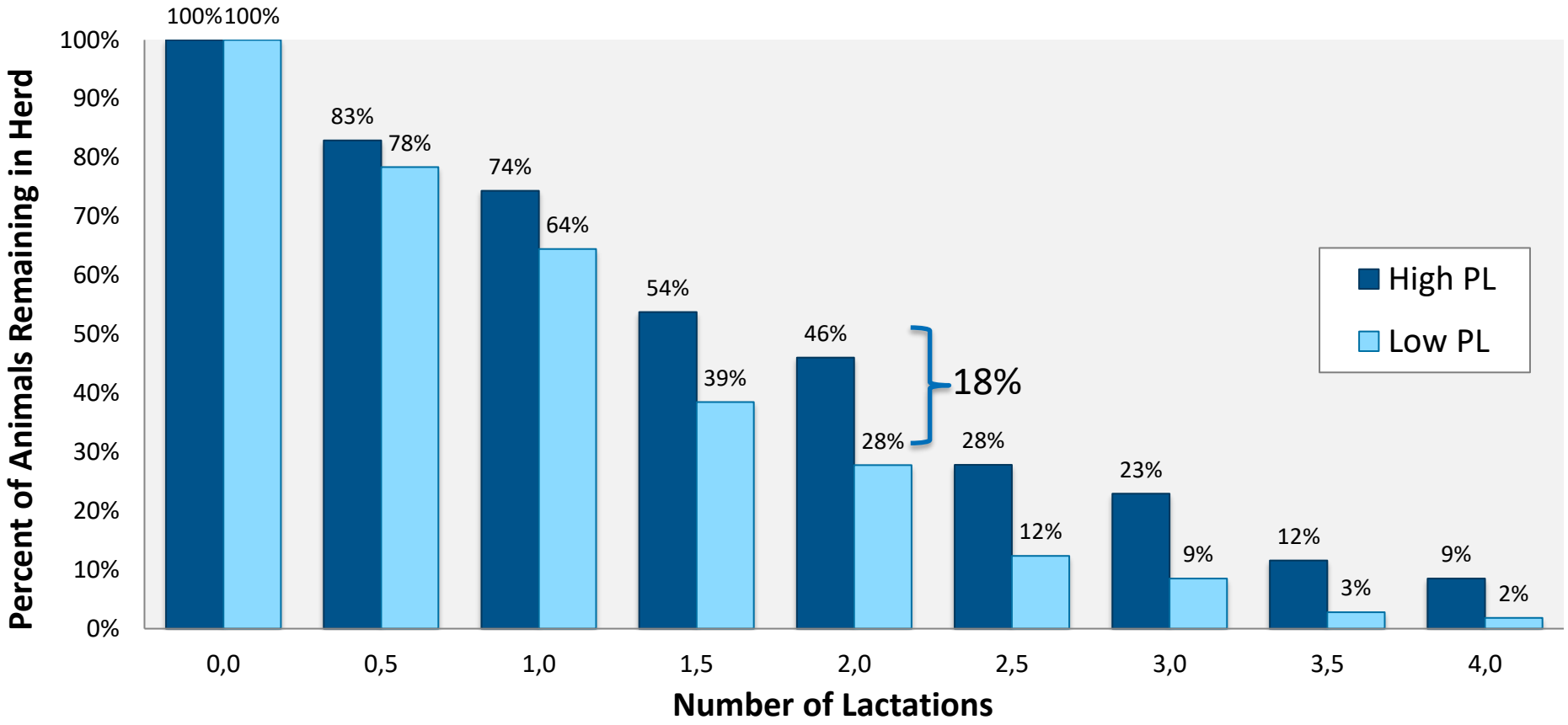
Productive Life means more Efficient Animals

2yr olds	Count	Sire PL	Abort	DNB	Sold	Died	Mast	RP	DA	PNEU	MET	INJ	LAME	Total Events
Top 25%	**284**	**5.5**	7	4	8	4	44	15	3	5	36	5	25	**167**
Bottom 25%	**150**	**0.8**	48	22	10	16	138	31	8	15	78	19	68	**465**

Real Effect of Productive Life



At the end of 2nd lactation we need 18% fewer replacements!

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Feed Efficiency vs. Feed Saved

- Index vs Trait
- Both evaluate efficiency of animal

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Feed Efficiency

- Index - evaluates the net profit a farmer receives from an increase in production
- Calculated as (Dollar Value of milk produced) - (Feed costs of extra milk) - (Extra maintenance costs)
- **FE** = (-.0188 x **Milk**) + (1.45 x **Fat**) + (1.85 x **Protein**) - (12.4 x **BWC**)

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Feed Saved

- Trait, Dec 2020 Launch
- **Holstein** only
- Measure of feed efficiency
- Expressed per lb feed saved per lactation
- FSAV is comprised of two parts
  - Body Weight Composite (BWC)
  - Residual Feed Intake (RFI)
- Lower reliability
  - 35-40%

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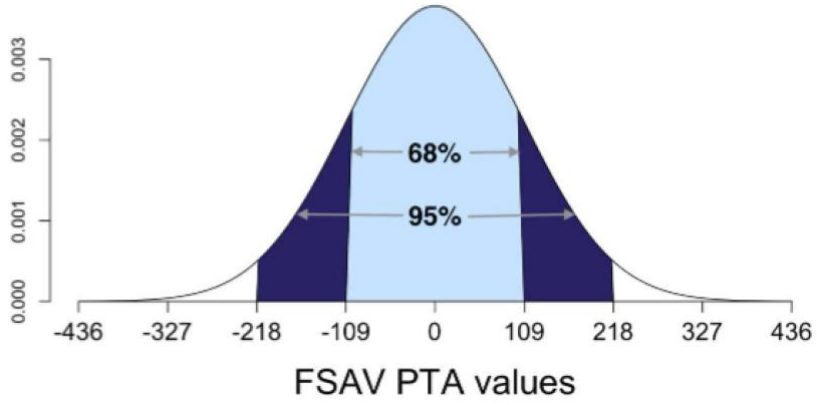
Feed Saved

- **FSAV PTA +200**: consume an average of 200 pounds of feed **less** based on production and body size
- **FSAV PTA -300**: consume an average of 300 pounds of feed **more** based on production and body size
- The standard deviation is 109 pounds per lactation
  - 68% of bulls will be in range of -109 to +109
  - 95% of bulls will be in range of -218 to +218
  - Dec 2020 range: -594 to +453



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Upcoming Changes – August Proof

- **NM$** will be updated in **August**
- **Feed Saved (FSAV)** is proposed to be **~20%** of the total formula.
- **PTAF and PTAP** – Ratio closer to 1:1
- **UDC and FLC** – Reduced weightings

Trait	NM$ 2018
Milk	-0.7
Fat	26.8
Protein	16.9
PL	12.1
SCS	-4
BWC	-5.3
UDC	7.4
FLC	2.7
DPR	6.7
CA$	4.8
HCR	1.4
CCR	1.6
LIV	7.3
HTH$	2.3
RFI	
EFC	
HLV	

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Body Weight Composite (BWC)

- **BWC** = (.23 x **Stature**) + (.72 x **Strength**) + (.08 x **Body Depth**) + (.17 X **Rump Width**) - (.47 x **Dairy Form**)
- Every 1.0 STA increase in body size correlates with a 35 pound predicted increase in mature body weight.
- Need to be careful that we don't breed a dairy, frail cow

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Cows for the Future

Traits to consider

- Production
- Productive Life
- Feed Saved

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Create Value ▲ Build Trust ▲ Deliver Results