



2018-19 Performance data from Waikino

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Farm system

- Location: Taupo
- Lambing mid-August to end September
- Ewes lambbed in the barns to ensure lamb survival
- Lambs on ewes for two days for colostrum
- Ewes then moved to grazing for the entire lactation



A large flock of sheep is grazing on a lush green hillside. The sheep are scattered across the slope, some standing and some lying down. In the background, there are rolling hills and a line of trees under a clear sky. A semi-transparent circular overlay is positioned on the left side of the image, containing text.

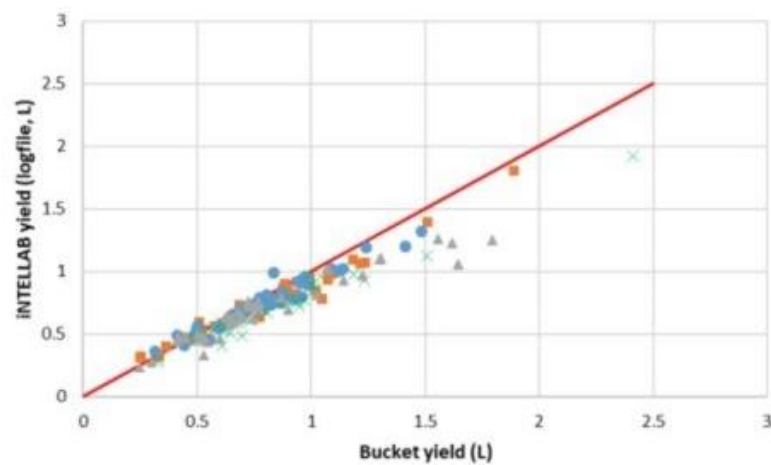
100% grazing lactation

- Lucerne in the daytime
- Grass and clover at night
- First half of lactation 2 times 200 grams pellets in milking parlour
- Second half of lactation 2 times 100 grams pellets

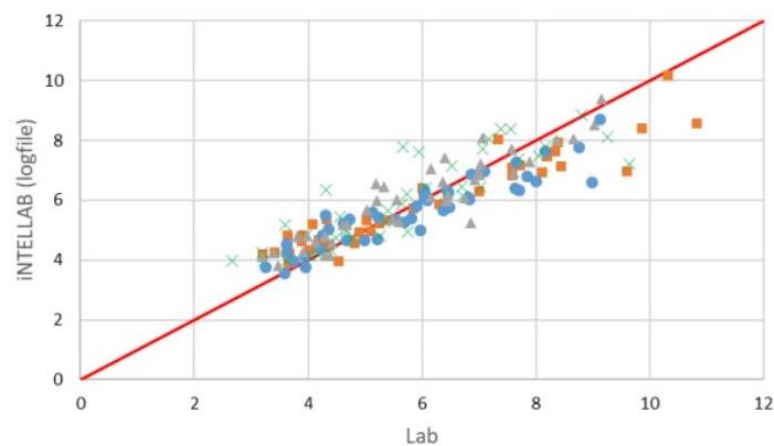
Test bucket set up



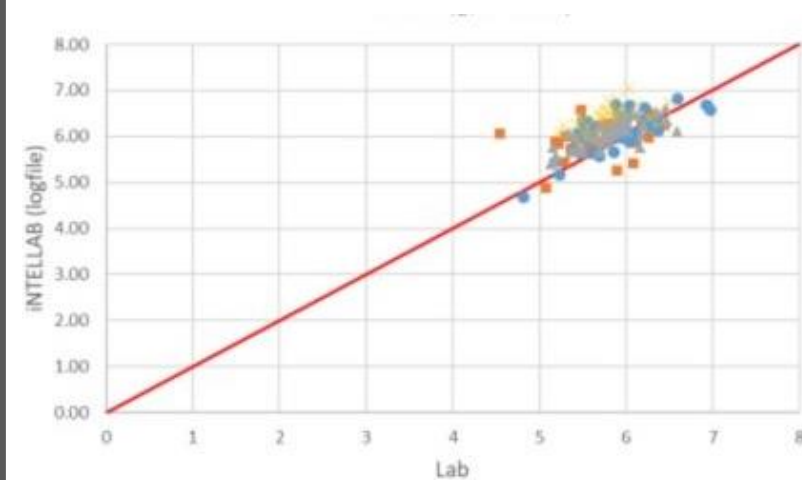
Milk Yield (L)



Fat (g/100mL)



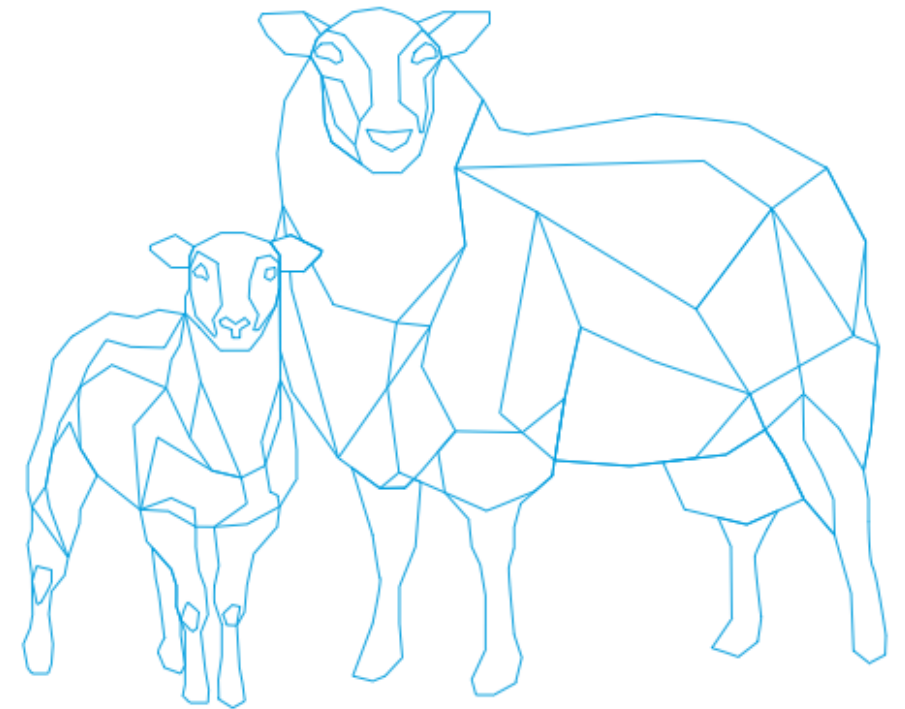
Protein (g/100mL)



Test bucket results

Average yield levels look modest because...

- Average age at lambing was 1.9 years
- East Friesian 46%, Coopworth 36%, Lacaune 12%, Highlander 4%, Awassi 2%
- No selection for production
- Average lactation length 162 days



**2018-19
production per
group**

	2015 born EF cross	2016 born SX F1	2017 born SX F2
	EF cross	50%EF 50%Coop	50%LA 25%EF 25%Coop
% milk genes	50%	50%	75%
Ewes lambed	298	1297	340
Nb of ewes (full lactation)	218	1088	304
% with full lactation	73%	84%	89%
Average Milk Total (kg)	214	215	208
Average Days in Milk (kg)	176	162	150
Average Yield per day (kg/d)	1.22	1.33	1.39

**2018-19
peak and end
milk yield**

	2015 born EF cross	2016 born SX F1	2017 born SX F2
	EF cross	50%EF 50%Coop	50%LA 25%EF 25%Coop
Peak Daily Milk (kg/d)	1.96	2.05	2.02
Days in Milk at Peak	49	39	41
Daily Milk end January (kg/d)	0.98	1.14	1.27

2018-19 Milk components

	2015 born EF cross	2016 born SX F1	2017 born SX F2
	EF cross	50%EF 50%Coop	50%LA 25%EF 25%Coop
Fat content (%)	6.64	6.24	6.07
Protein content (%)	5.79	5.84	5.58
Milk Solids (kg/d)	0.13	0.14	0.14

Performance of unselected ewes

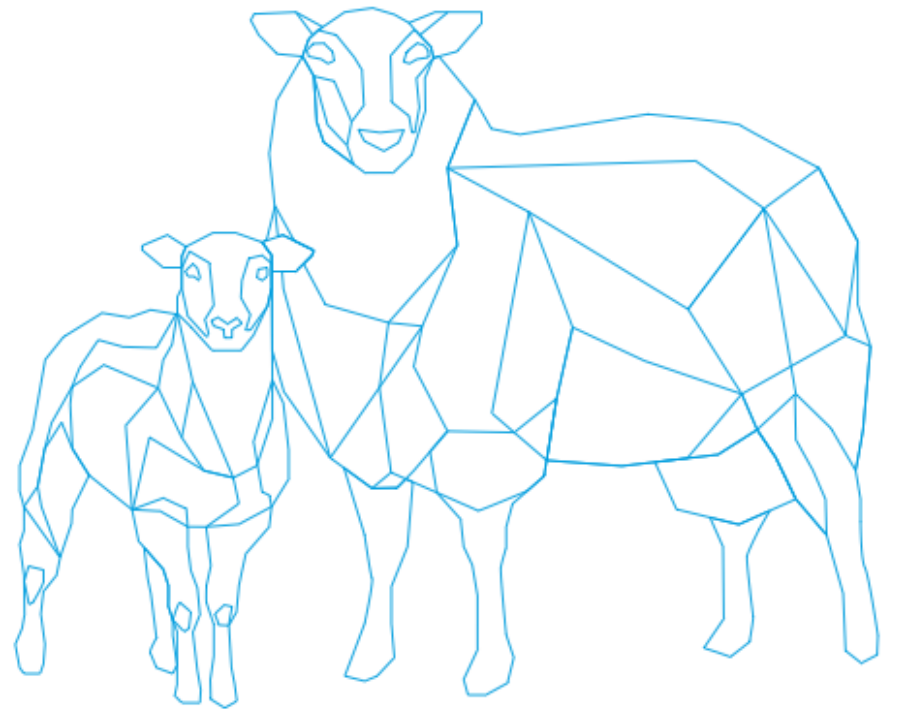
	2015 born EF cross	2016 born SX F1	2017 born SX F2
	EF cross	50%EF 50%Coop	50%LA 25%EF 25%Coop
Nb of ewes (full lactation)	218	1088	304
Average Total Milk	214	215	208
Average Days in Milk	176	162	150
Average Yield per day	1.22	1.33	1.39
Average production end of January	0.98	1.14	1.27
Nb of missing days to 180 days	4	18	30
Calculated milk/day for missing days (80% of daily milk at end of January)	0.8	0.9	1.02
Total Milk from adjustment	3	16	31
Expected milk after days adjustment	217	231	239
Age adjustment	1.1	1.2	1.4
Expected milk after all adjustments	239	277	335

Culling low producers will increase the average for each group

Improving performance in spring 2019

- Average age at lambing will be 2.0 years (40% hoggets)
- Lacaune 35%, EF 32%, Coopworth 30%, Awassi 2%, Highlander 1%
- Lactation length 180-200 days
- 20-25% culling for production

Lactation yields of 300-400+ litres are possible in a grazing system



Living proof

- Name: “Tap-Tap”
- Breed: Southern Cross™
- Age at lambing: 11.5 months
- First lactation: 376 litres in 171 days*
- **Mature equivalent: 526 litres in 171 days**

** Twin sister did 295 litres in 153 days
Her mother (50% Coopworth) did 228 litres in 164 days*

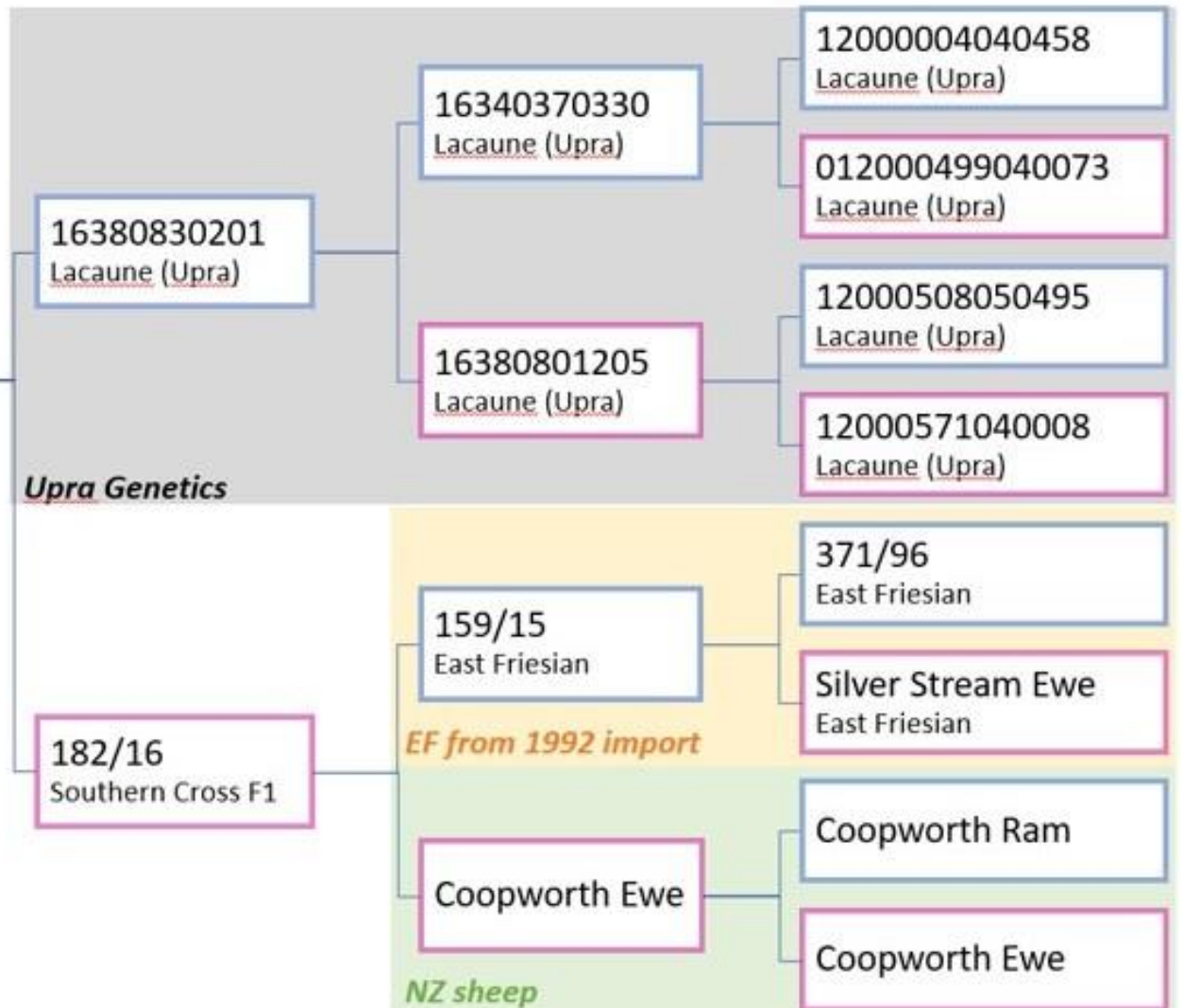


Typical Southern Cross™ pedigree

“Tap-Tap”

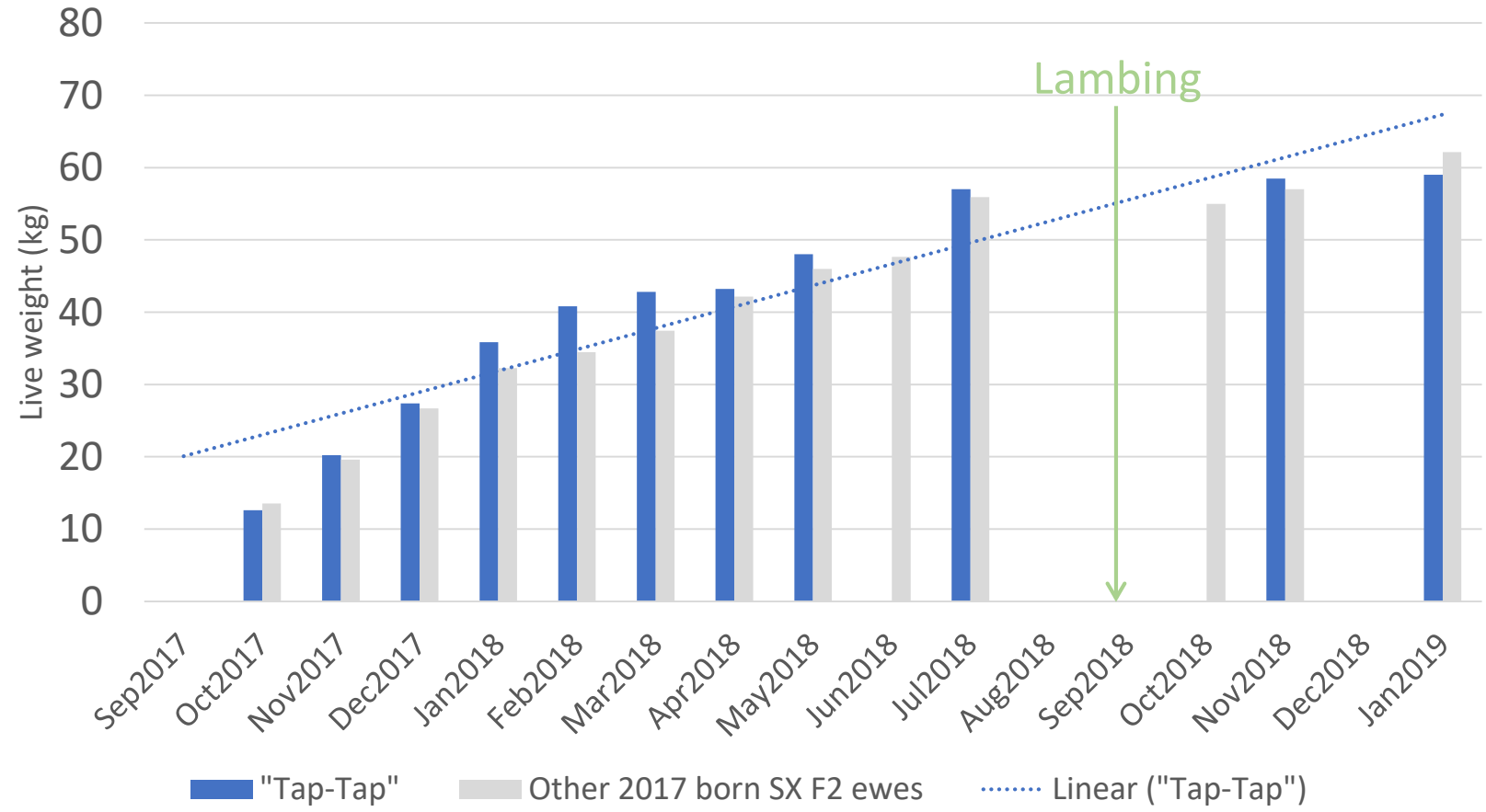
1365/17
Southern Cross F2

1273/18
Southern Cross F3

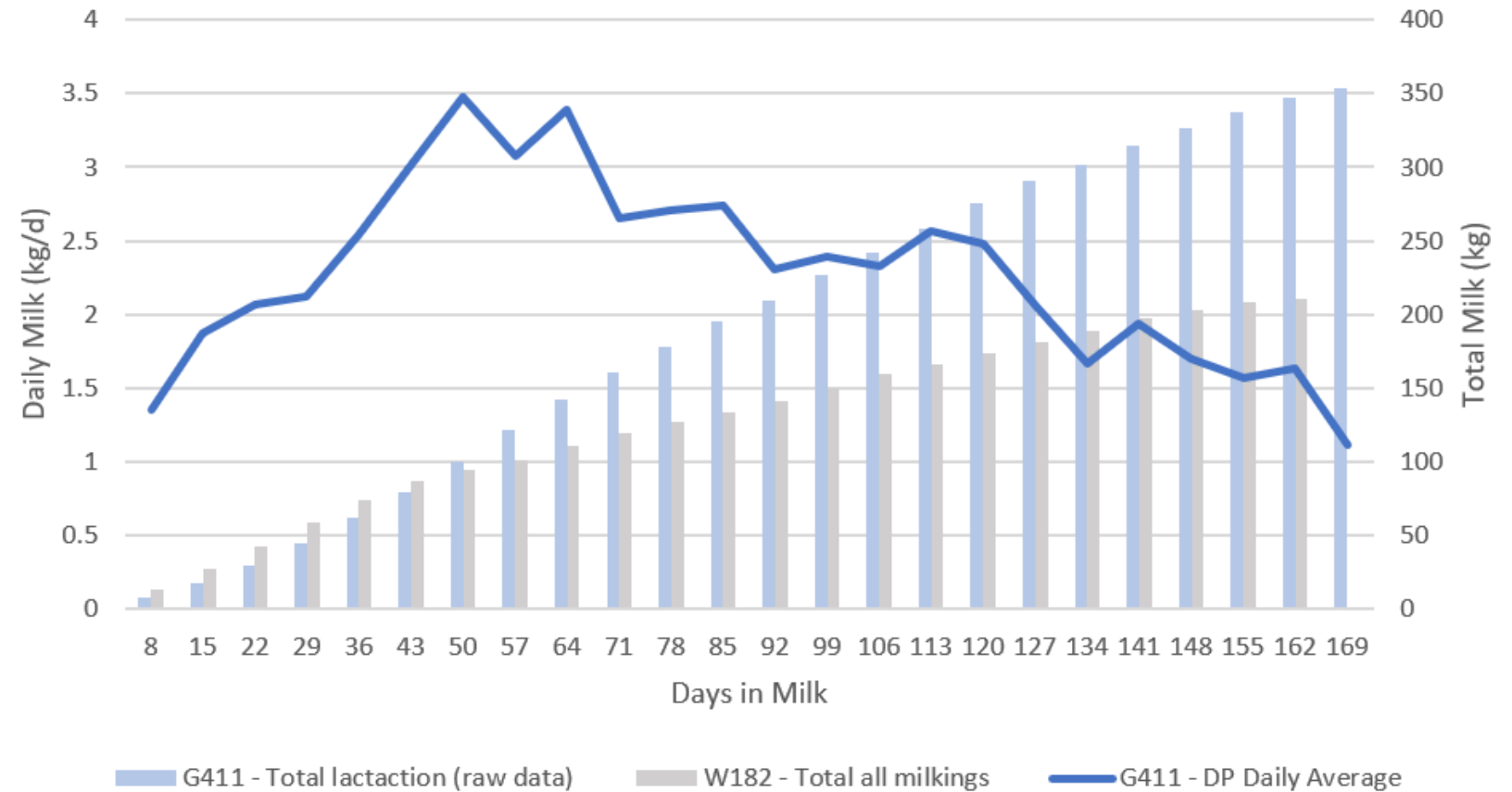


NB: All replacements are
DNA parentage tested
(both ewes and rams)

Live weight of "Tap-Tap"



Milk production by “Tap-Tap”



Thank you

