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MTEch Users Conference





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Kelly Schulz - Sonar Mobile Product Manager

# How to use IoT to optimize the supply chain



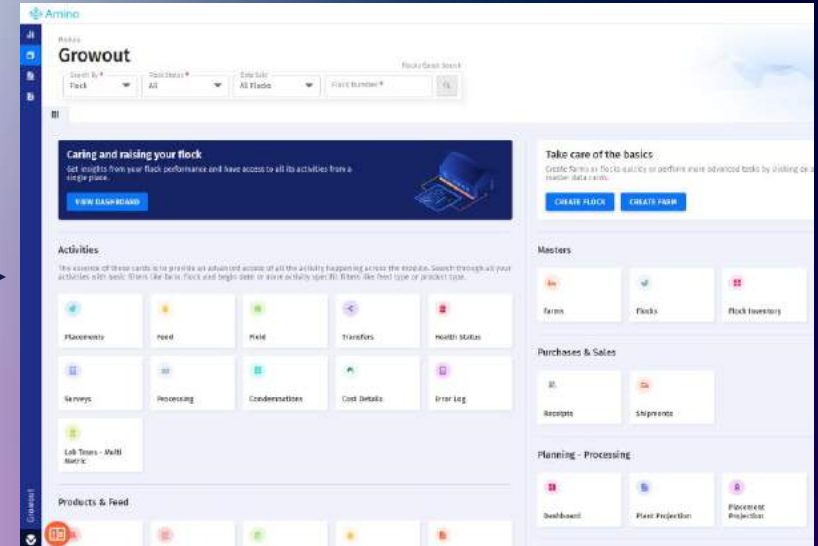
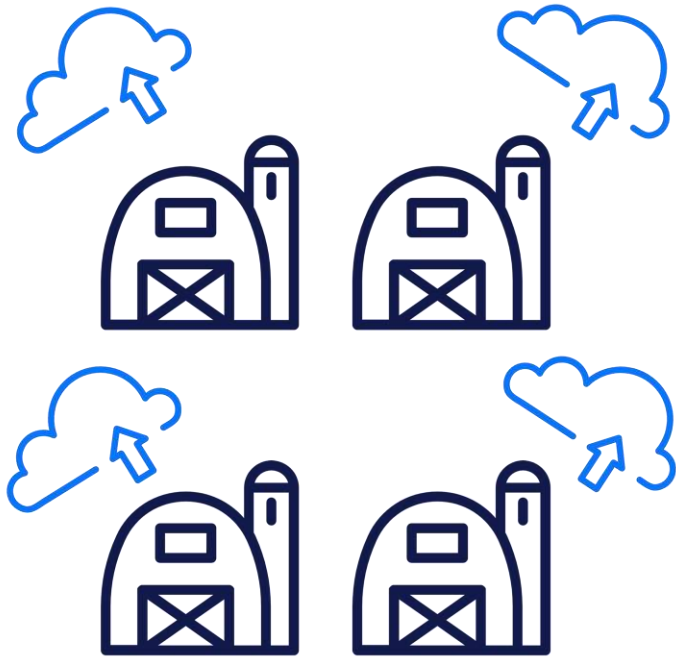
# IoT Everywhere!



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# Past



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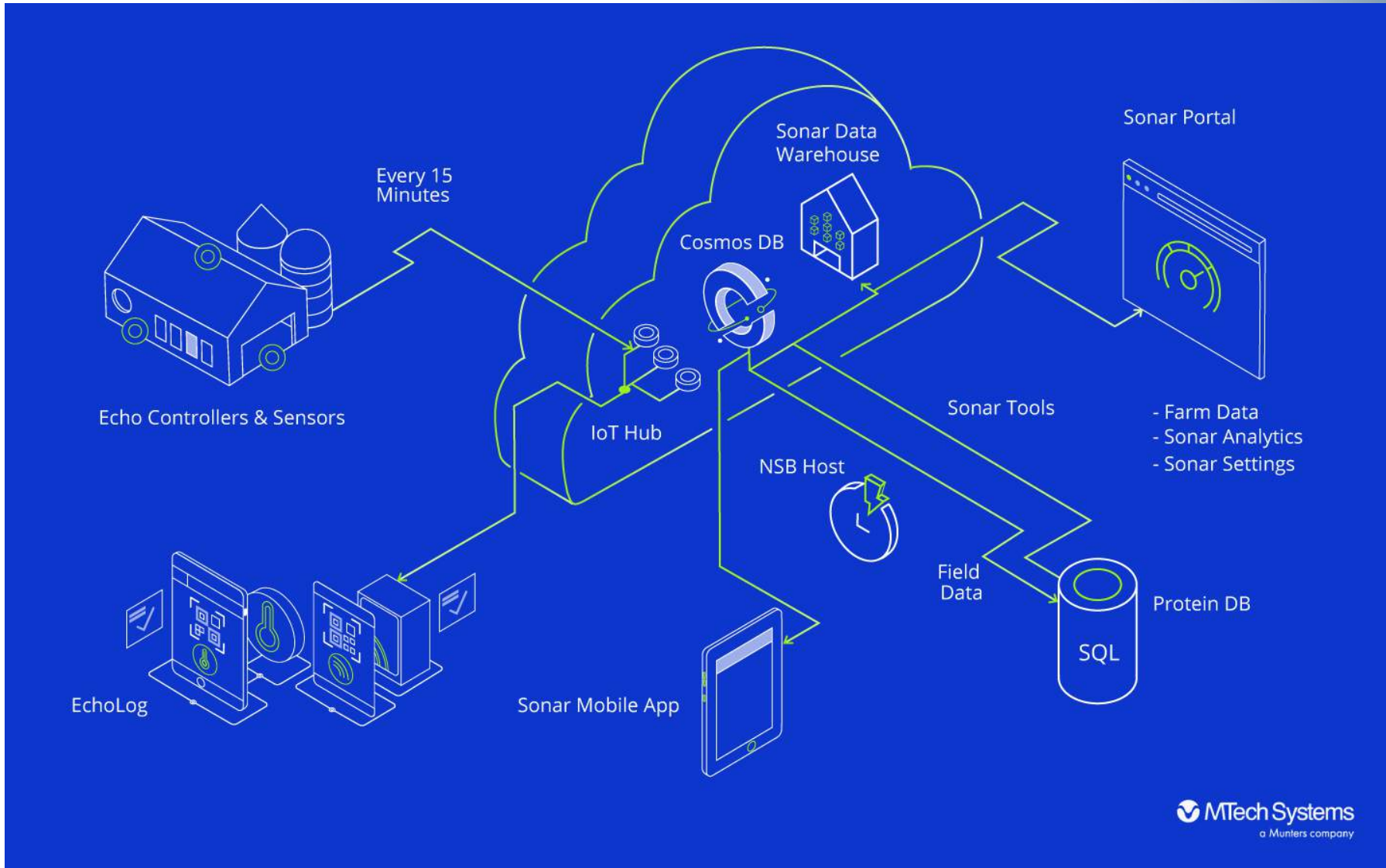


# Past



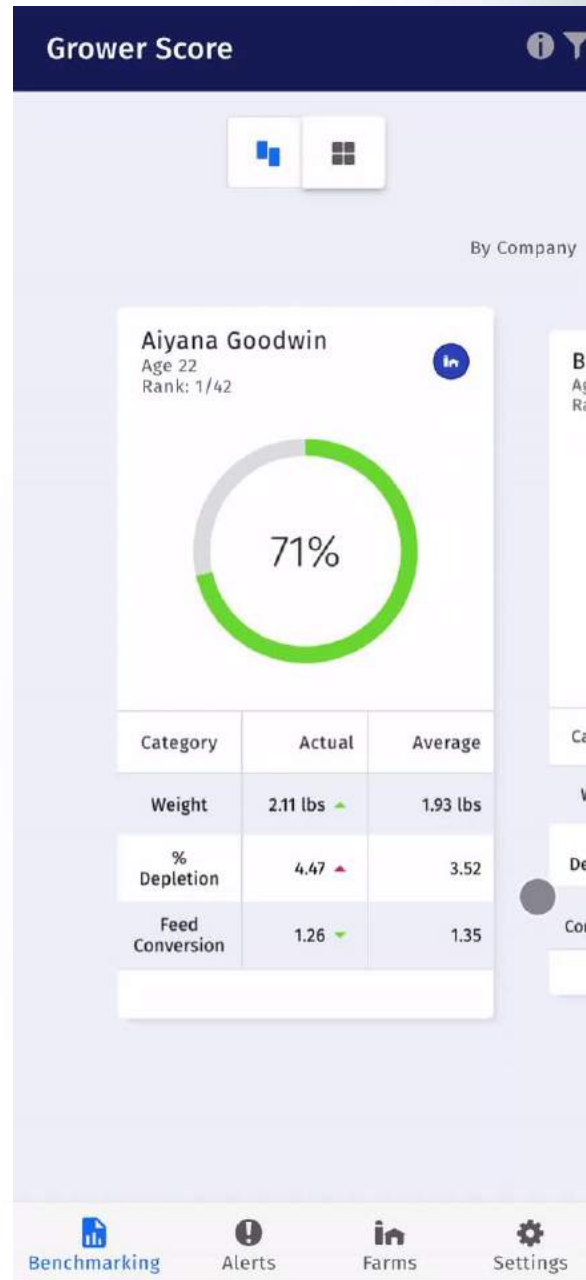
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# Present



# Present

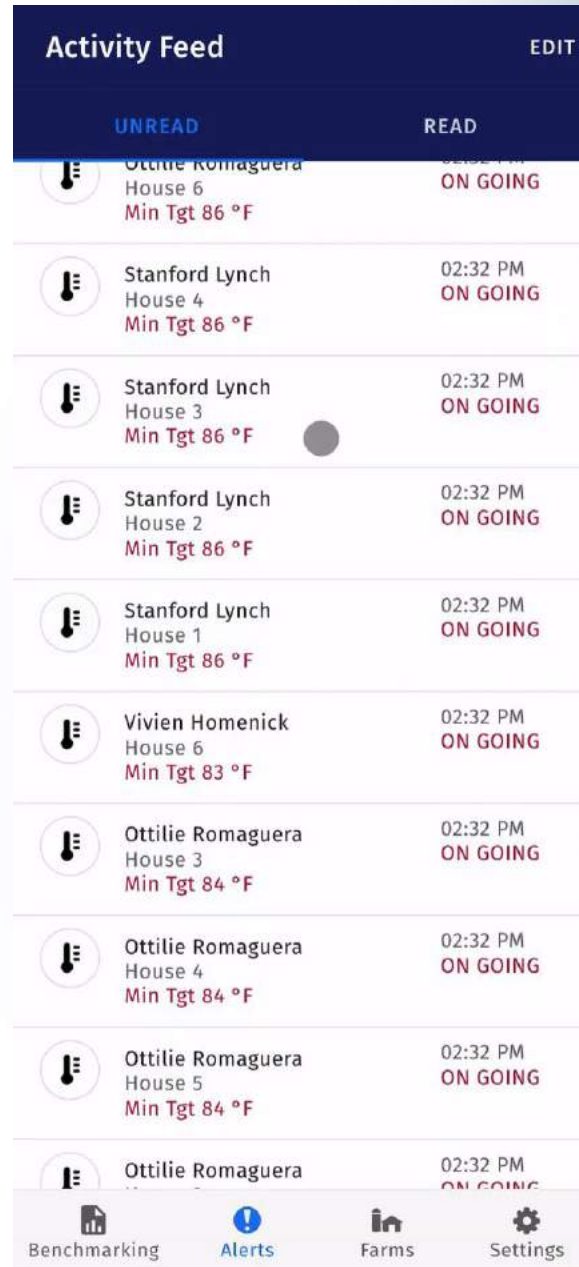
Benchmark performance  
by company or past flocks



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# Present

Easily monitor your farms  
...and receive alerts!



The screenshot shows an 'Activity Feed' interface with a dark blue header containing the title 'Activity Feed' and an 'EDIT' button. Below the header, there are two columns: 'UNREAD' and 'READ'. The 'UNREAD' column contains a list of farm monitoring alerts, each with a thermometer icon, the farm name, house number, and a target temperature. The 'READ' column shows the time of the alert and the status 'ON GOING'. The bottom of the screen features a navigation bar with four icons: Benchmarking, Alerts, Farms, and Settings.

UNREAD	READ
Otilie Romaguera House 6 Min Tgt 86 °F	02:32 PM ON GOING
Stanford Lynch House 4 Min Tgt 86 °F	02:32 PM ON GOING
Stanford Lynch House 3 Min Tgt 86 °F	02:32 PM ON GOING
Stanford Lynch House 2 Min Tgt 86 °F	02:32 PM ON GOING
Stanford Lynch House 1 Min Tgt 86 °F	02:32 PM ON GOING
Vivien Homenick House 6 Min Tgt 83 °F	02:32 PM ON GOING
Otilie Romaguera House 3 Min Tgt 84 °F	02:32 PM ON GOING
Otilie Romaguera House 4 Min Tgt 84 °F	02:32 PM ON GOING
Otilie Romaguera House 5 Min Tgt 84 °F	02:32 PM ON GOING
Otilie Romaguera	02:32 PM ON GOING

Benchmarking Alerts Farms Settings



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# Present

View upcoming and past events from Protein or Amino

- Placements
- Feed
- Processing
- More to come!

Kyler Bailey  
169565

HOUSES EVENTS ANALYTICS ALERTS

Upcoming Past

Planned Feed Delivery  
19,650 lbs

House	Date	Time
4	September 12, 2022	12:00 AM

Load 15544 Feed Type BRLFIN

Planned Feed Delivery  
16,248 lbs

House	Date	Time
5	September 12, 2022	12:00 AM

Load 15544 Feed Type BRLFIN

Planned Feed Delivery  
14,899 lbs

House	Date	Time
6	September 12, 2022	12:00 AM

Load 15544 Feed Type BRLFIN

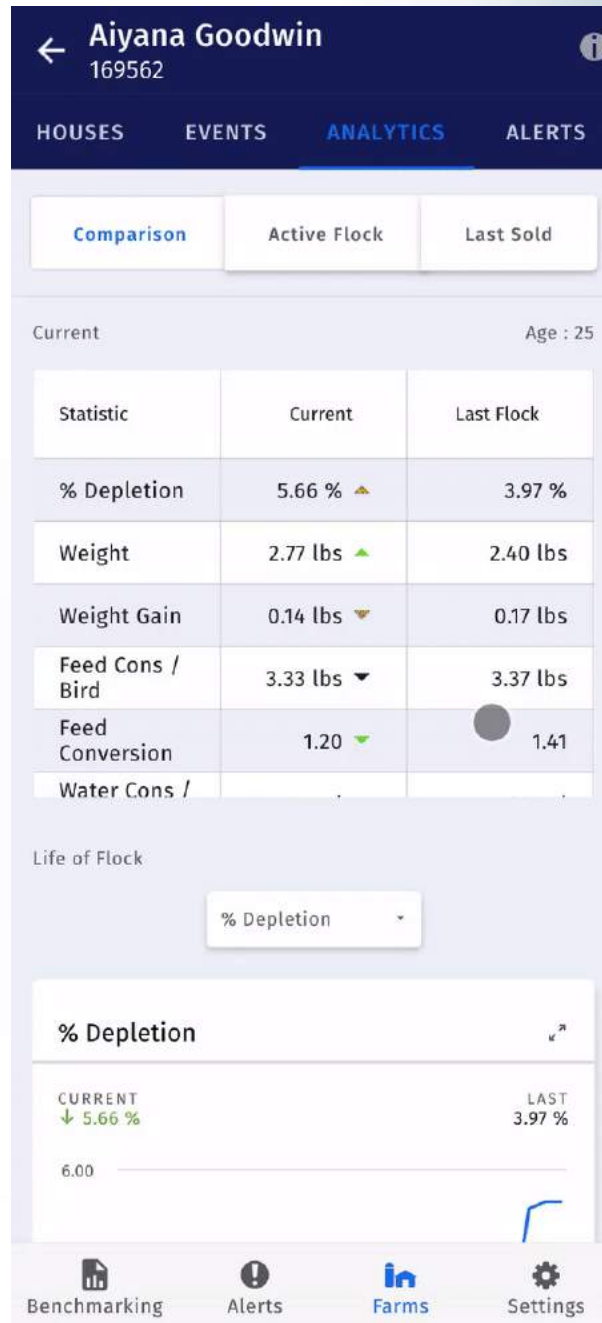
Benchmarking Alerts Farms Settings



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# Present

Compare your current and past flock statistics to gauge performance

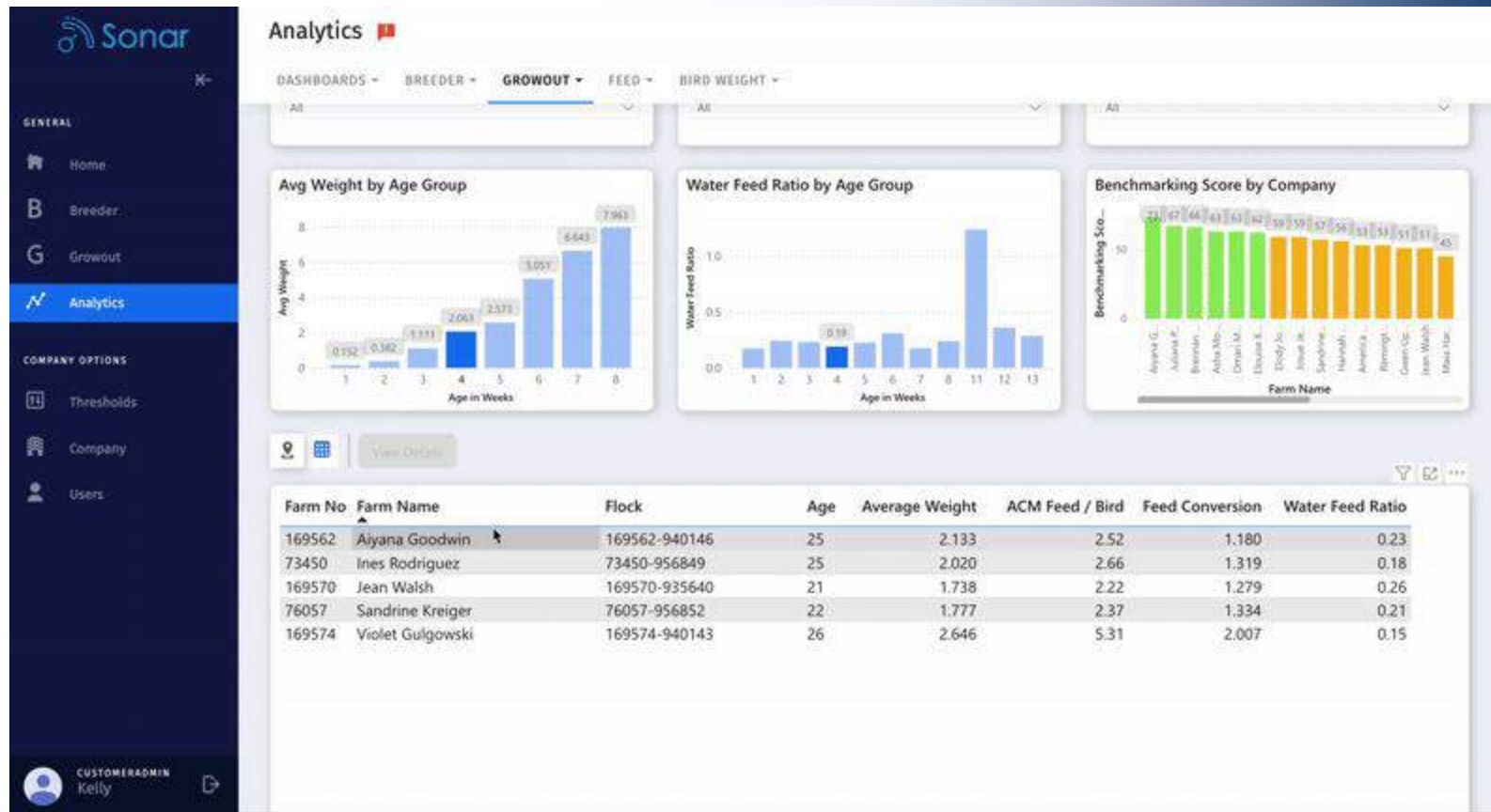


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# Present

All your data at your fingertips for deep analysis



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# Present

Build and share your own dashboards for custom views

The screenshot shows the 'Analytics' section of the Sonar application. The sidebar on the left contains navigation links for 'GENERAL' (Home, Breeder, Growout, Analytics) and 'COMPANY OPTIONS' (Thresholds, Company, Users). The main content area is titled 'Analytics' and 'DASHBOARDS'. It features a 'NEW DASHBOARD' button and a table listing existing dashboards.

<input type="checkbox"/>	Dashboard Name	Creation Date	Last Updated Date	Dashboard Owner	Main Dashboard
<input type="checkbox"/>	Default View	08/08/2022	08/08/2022	kelly.mills.schulz@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	My Dashboard	09/12/2022	09/12/2022	kelly.mills.schulz@gmail.com	<input type="checkbox"/>

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# Present

Use Sonar data in Amino to optimize your supply chain

The screenshot displays the Amino Growout interface. At the top, there is a search bar with filters for 'Search By' (set to Flock), 'Flock Status' (set to All), 'Date Sold' (set to All Flocks), and 'Flock Number'. Below the search bar, there is a 'Search Field' input and a '+ NEW FIELD TRANSACTION' button. The main section is titled 'Search Records - Field' and contains a table of records. The table has columns for 'House ID', 'Date', 'Age', 'Record Source Type', 'Water Consumption', 'Temperature', and 'Humidity'. The records are sorted by date, showing various transactions from August 2022. Each row includes an 'Edit Record' icon and a checkbox. The bottom of the interface shows a pagination bar with '1 of 5 pages (824 items)' and a 'Items per page' dropdown set to 200.

House ID	Date	Age	Record Source Type	Water Consumption	Temperature	Humidity
01	01/08/2022	2	Sonar	1,122.000	32.23	66.00
01	02/08/2022	3	Sonar	0.000	0.00	0.00
03	03/08/2022	1	Sonar	760.000	33.53	66.55
04	03/08/2022	1	Sonar	590.000	33.23	67.30
02	03/08/2022	1	Sonar	410.000	33.16	62.28
01	03/08/2022	4	Sonar	1,817.000	32.16	70.02
06	03/08/2022	1	Sonar	348.000	33.75	63.10
05	03/08/2022	1	Sonar	433.000	33.14	63.95
07	04/08/2022	1	Sonar	870.000	33.62	67.51
09	04/08/2022	1	Sonar	470.000	33.35	63.83
08	04/08/2022	1	Sonar	836.000	33.23	63.47
03	04/08/2022	2	Sonar	1,366.000	32.81	67.57
04	04/08/2022	2	Sonar	1,136.000	32.84	67.13

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# Future

- Additional ML to improve data cleansing, predictions, and analysis
- Prescriptive analytics
- Additional species
- Deeper integration with Amino
- Additional hardware partnerships





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Thanks

Gracias

謝謝

اركش

Danke

Спасибо

ありがとう

Obrigado

[mtechsystems.io](https://mtechsystems.io)