00:00:01:22 – 00:00:03:15
Speaker 4 (Our Founder, Clint Brauer)
The reason we created these initial

00:00:03:15 – 00:00:04:04
Speaker 4
robots

00:00:04:04 – 00:00:06:07
Speaker 4
was to solve a pretty basic problem,

00:00:06:11 – 00:00:12:10
Speaker 4
weeds had become resistant to herbicides. And so then you have to use more of those chemicals.

00:00:12:10 – 00:00:14:14
Speaker 4
There's no resistance to spinning blades.

00:00:19:23 – 00:00:20:21
Speaker 4
The process is

00:00:20:21 – 00:00:23:07
Speaker 4
pretty simple. I am a farmer, so I designed it

00:00:23:07 – 00:00:24:06
Speaker 4
To work for farmers.

00:00:24:06 – 00:00:26:00
Speaker 4
They let us know when they planted the crop.

00:00:26:00 – 00:00:27:10
Speaker 4
We actually fly a drone.

00:00:30:21 – 00:00:32:18
Speaker 4
We use that drone that basically

00:00:32:18 – 00:00:36:11
Speaker 4
maps the field. And then we come in and we use machine vision

00:00:36:16 – 00:00:37:18

Speaker 2
A.I. and algorithms.

00:00:38:05 – 00:00:39:09
Speaker 2
We are determining where the rows are.

00:00:39:09 – 00:00:43:02
Speaker 2
and as the robots are going around, they're talking to each other and deciding where they're going to go,

00:00:43:07 – 00:00:43:20
Speaker 4
the farmers don't

00:00:43:20 – 00:00:46:04
Speaker 4
have to even be there. We don't even have to be there.

00:00:51:19 – 00:00:52:02
Speaker 4
So we have

00:00:52:02 – 00:00:53:05
Speaker 1
have weed cutting robots

00:00:53:05 – 00:00:54:18
Speaker 4
running through a field at a high speed,

00:00:58:06 – 00:01:03:17
Speaker 4
We let them (the farmers) know when it's done. We give them a report at the end of this and we try to keep it as simple as possible.

00:01:04:20 – 00:01:07:00
Speaker 4
there's a lot of advantages to, to robots

00:01:07:00 – 00:01:08:12
Speaker 4
One is that they're small

00:01:08:12 – 00:01:09:09
Speaker 4
are lighter weight

00:01:09:17 – 00:01:12:04

Speaker 4
they're much easier to maintain, they're much lower cost

00:01:12:04 – 00:01:20:21
Speaker 2
Anything on our robots can be replaced in 15 minutes or less. And that was my edict working on poorly designed equipment growing up and throwing my wrenches across the farm.

00:01:21:04 – 00:01:22:05
Speaker 2
We build them ourselves

00:01:22:08 – 00:01:23:03
Speaker 4
right here in Kansas.

00:01:23:18 – 00:01:25:00
Speaker 4
The second thing is

00:01:25:00 – 00:01:26:06
Speaker 4
they can run day or night,

00:01:26:06 – 00:01:33:04
Speaker 4
Someone's going to have to work long days and nights. Is it a farmer out there on their tractor day and night, or is it a robot?

00:01:33:04 – 00:01:34:19
Unknown
And then.

00:01:34:19 – 00:01:37:17
Speaker 4
We're basically trying to figure out what are the pain points,

00:01:37:17 – 00:01:39:05
Speaker 4
What is the issue for the farmer?

00:01:39:05 – 00:01:41:14
Speaker 4
And so we're trying to lower that stress level for them

00:01:41:14 – 00:01:48:11
Speaker 4
and at the same time put them on a path to healthier crops, which means healthier food for all of us.

00:01:49:21 – 00:01:52:20
Speaker 3 –– John Niemann
My name is John Niemann. We farm in Reno County

00:01:52:20 – 00:01:54:11
Speaker 3
the farm we did last year.

00:01:54:14 – 00:01:56:17
Speaker 3
with Greenfield Robotics on a sorghum field,

00:01:56:17 – 00:01:59:02
Speaker 3
we ran the robots on 70

00:01:59:02 – 00:02:01:03
Speaker 3
of the 80 acres. So we had ten acres

00:02:01:07 – 00:02:03:12
Speaker 3
that we didn't have the robots run,

00:02:03:14 – 00:02:06:11
Speaker 3
there was like a 15, 20 bushel difference

00:02:06:11 – 00:02:08:15
Speaker 3
between the ten acres that had not

00:02:08:15 – 00:02:09:13
Speaker 3
had the robots

00:02:09:13 – 00:02:11:18
Speaker 3
And what the rest of the field that had the robots.

00:02:12:07 – 00:02:14:19
Speaker 3
I see this as a next generational mindset.

00:02:14:19 – 00:02:19:08
Speaker 3
We want to do what's right for the future and we want to do what's right, right now.

00:02:20:04 – 00:02:22:23
Speaker 4
My name is Will Hastie, and I'm a farmer.

00:02:23:12 – 00:02:26:11
Speaker 4
some of the most challenging parts of farming are

00:02:26:11 – 00:02:27:09
Speaker 4
to do what we do

00:02:27:09 – 00:02:31:08
Speaker 4
best, but still do that profitably.

00:02:31:08 – 00:02:34:16
Speaker 4
We like working with Greenfield Robotics because it helps us achieve the goal

00:02:34:16 – 00:02:36:01
Speaker 4
of remaining profitable

00:02:36:01 – 00:02:38:10
Speaker 4
and growing as farmers because

00:02:38:10 – 00:02:43:04
Speaker 4
it doesn't matter what we do, if we can't make a profit, then we're not farming anymore.

00:02:43:09 – 00:02:45:07
Speaker 4
As greenfield robotics

00:02:45:07 – 00:02:48:02
Speaker 4
portfolio grows and there's going to be a lot more opportunity

00:02:48:03 – 00:02:49:19
Speaker 4
in the future, especially involving

00:02:49:20 – 00:02:50:23
Speaker 4
regenerative agriculture

00:02:50:23 – 00:02:53:01
Speaker 4
so we can control weeds and we can

00:02:53:01 – 00:02:54:09
Speaker 4
improve soil health.