



Climate Friday Town Hall

*The Power and Potential of
Regenerative Ranching.*

-Wendy Millet, TomKat Ranch



Regenerative Agriculture can
provide ~18% of total GHG
extraction we need by 2050.

Cattle: ~47 GT CO₂e

9- Silvopasture 31.19 GT

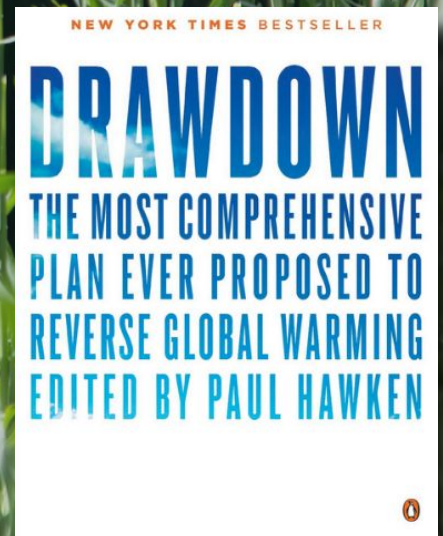
19- Managed grazing 16.34 GT

Crops: ~52 GT CO₂e

11- Regenerative Ag 23.15 GT

16- Conservation Ag 17.35 GT

24- Improved Rice Cultivation 11.34 GT

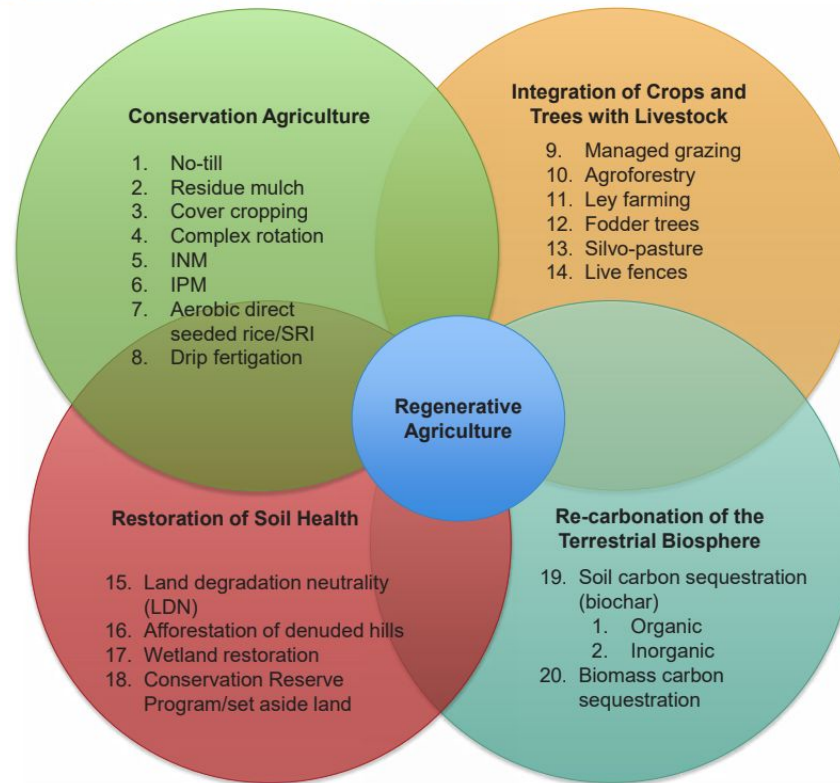


Regenerative agriculture for food and climate

Rattan Lal

Figure 1

Basic tenets of regenerative agriculture designed to draw carbon dioxide from the atmosphere. Specific packages of practices depend on site-specific biophysical environments and the human dimensions. INM = integrated nutrient management. IPM = integrated pest management. SRI = system of rice intensification.

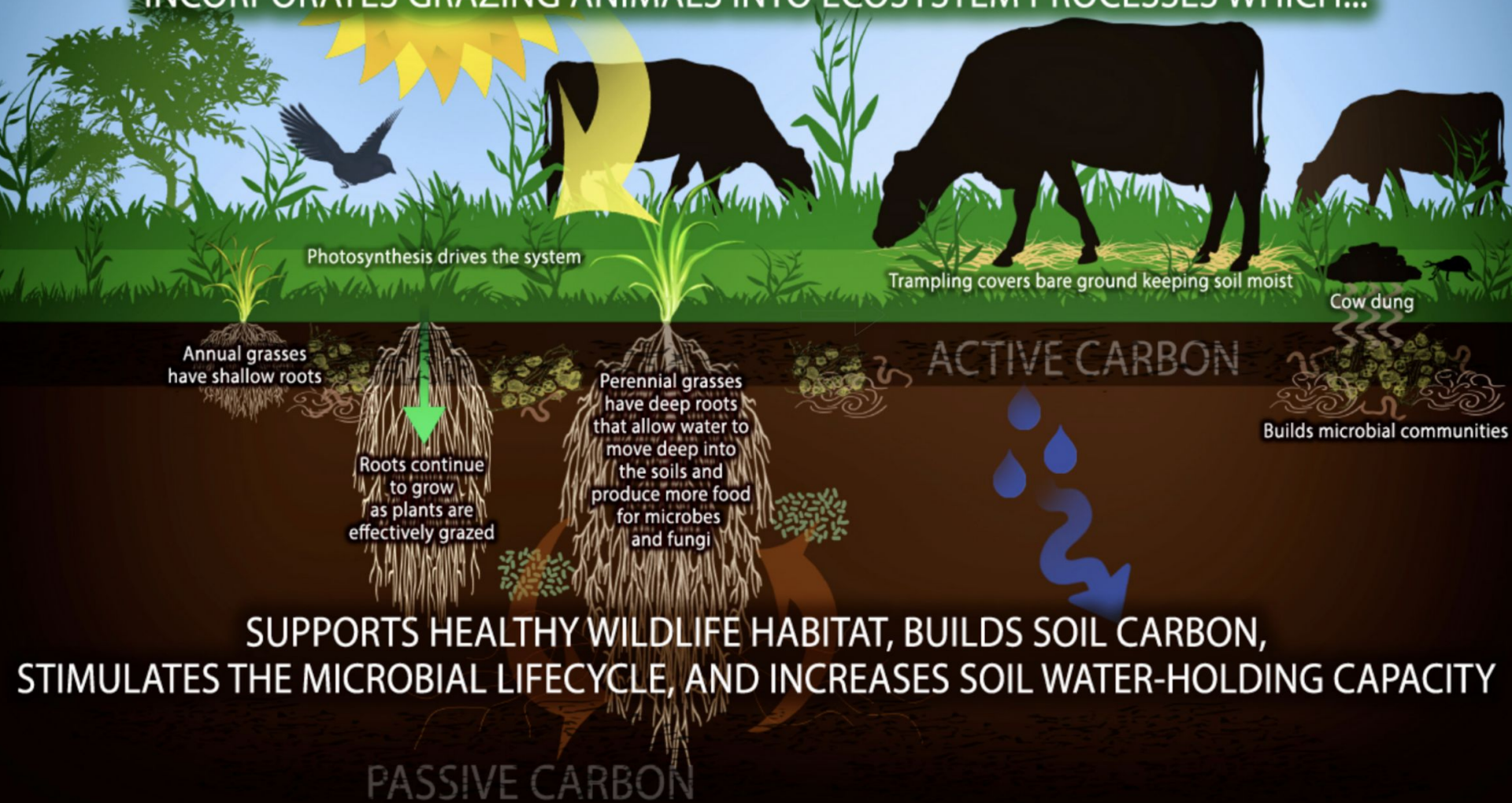


REGENERATIVE AGRICULTURE: MORE THAN JUST CARBON



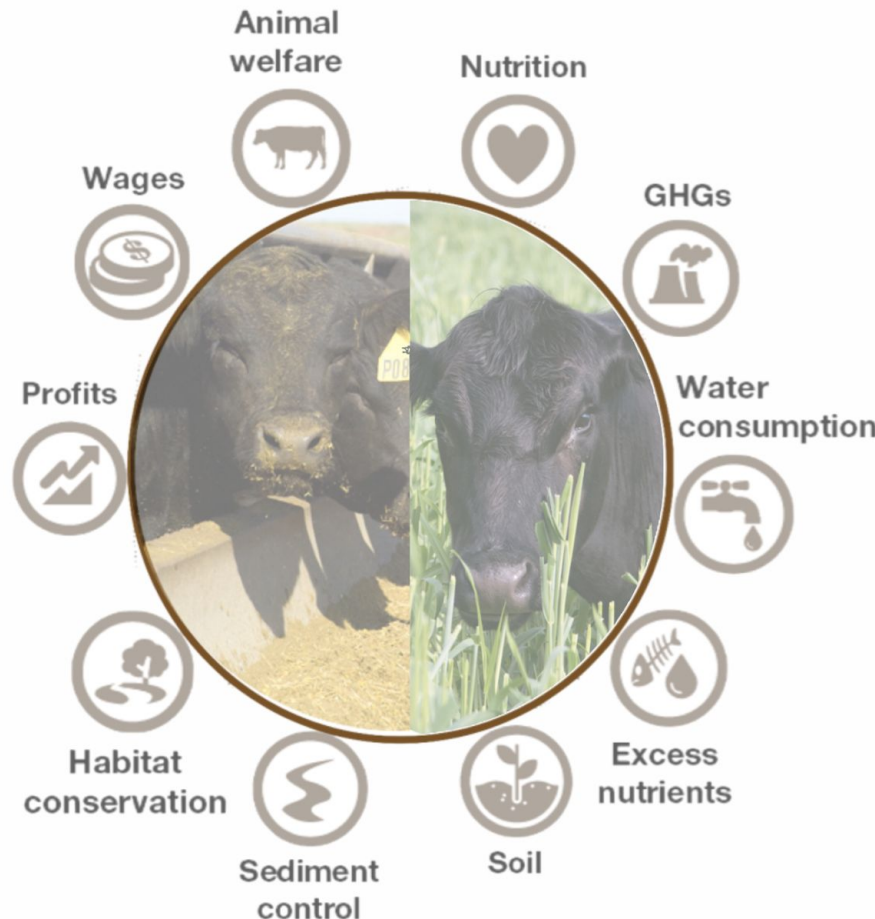
REGENERATIVE RANCHING

INCORPORATES GRAZING ANIMALS INTO ECOSYSTEM PROCESSES WHICH...



THE TRUE COST OF BEEF. VALUING THE WHOLE SYSTEM

-\$3.03 / lb
INDUSTRIAL
BEEF
(Negative Impact)



+\$6.97 / lb
REGENERATIVE
BEEF
(Positive Impact)

For more details and supporting documents regarding this analysis, see

<https://tomkatranch.org/2018/08/06/accessing-the-total-impact-of-tomkat-ranch-research-and-methodologies/>.

REGENERATIVE BOTTOM LINE. GROWING NET PROFIT.

KNOWN BENEFITS

INCREASES INCOME



Reduce Labor Time



**Reduce/Eliminate External
Feed Costs**



**Reduce Land Management
and Upkeep Costs**



**Increase Resilience to
Extreme Conditions and
Weather**



Increase Stocking Rate



Access Premium Prices



Create New Enterprises



**Increase Health and Value
of Land**



**Improve Livestock Health
and Performance**

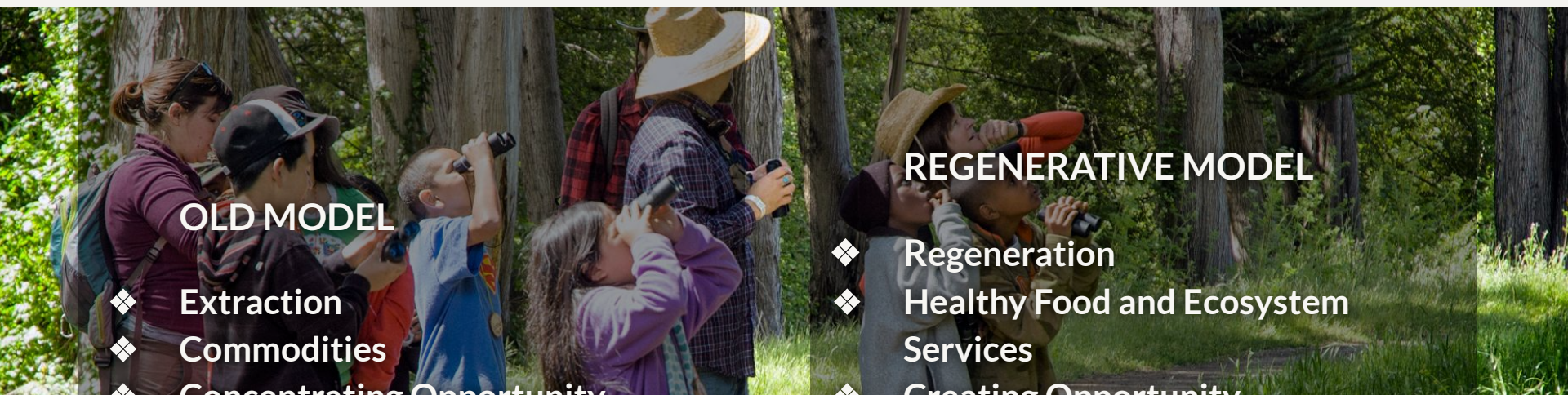


**Win Desirable Leases,
Grants, and Incentives**

REDUCES COSTS

These, and many other, economic benefits have been observed and documented in the Profiles in Land and Management Series at www.RegenerativeRanching.org

INSPIRING A RURAL RENAISSANCE



OLD MODEL

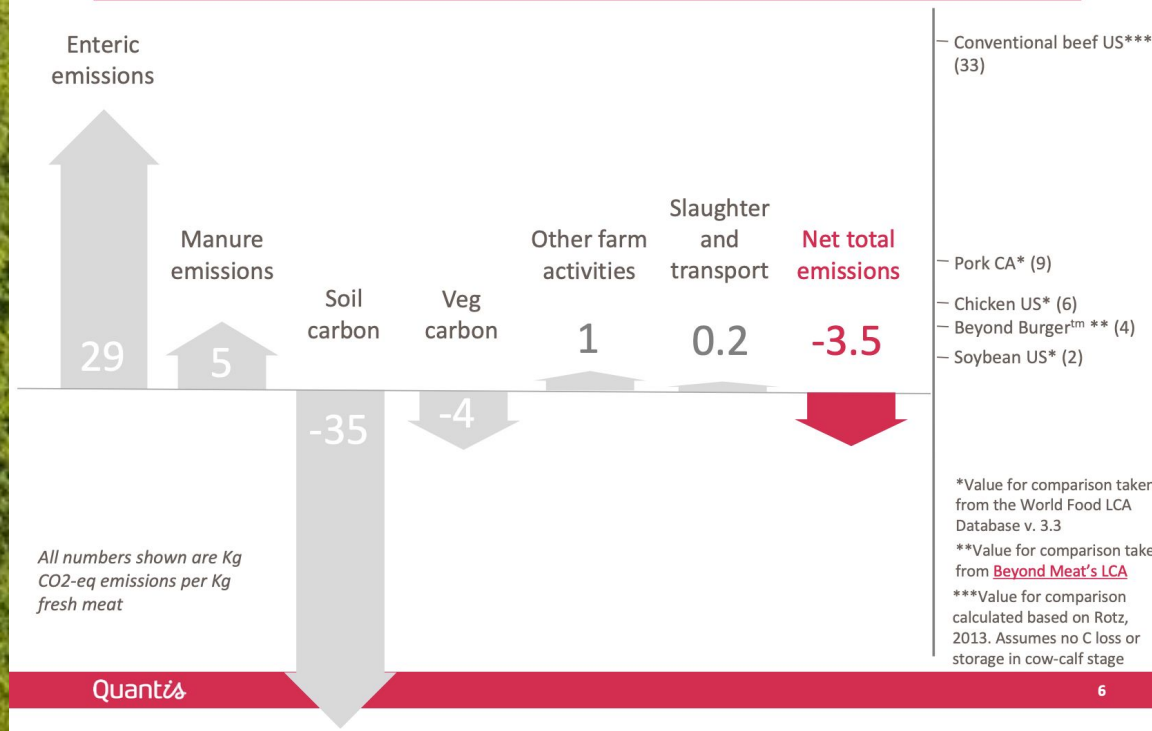
- ❖ Extraction
- ❖ Commodities
- ❖ Concentrating Opportunity
- ❖ Market-Driven
- ❖ Labor/Capital
- ❖ Insular
- ❖ Nature as Opponent
- ❖ Focused on Single Generation
- ❖ Urban Dwellers as Owners or Adversaries
- ❖ Government as Regulator/ Subsidizer
- ❖ Brittle

REGENERATIVE MODEL

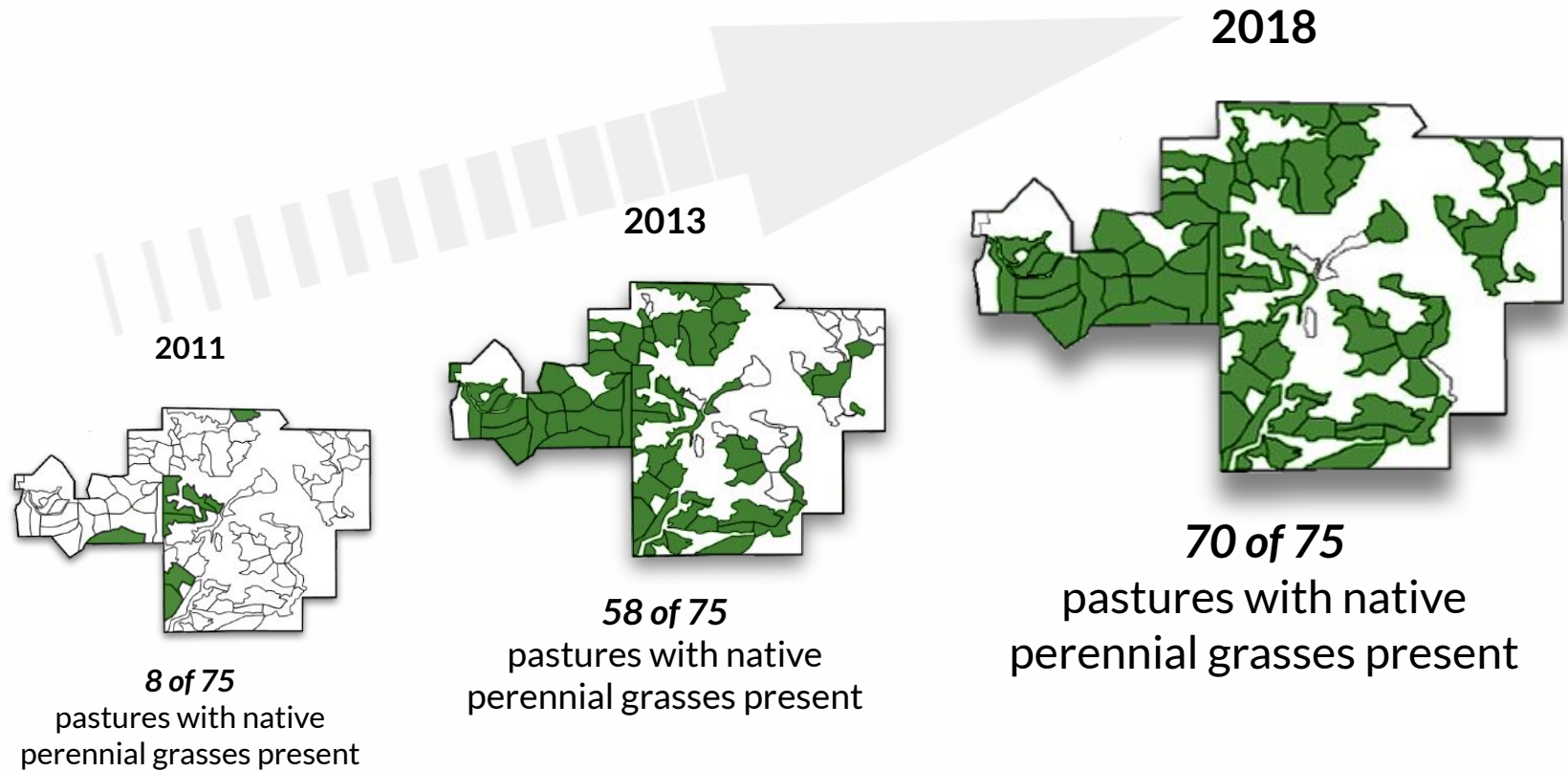
- ❖ Regeneration
- ❖ Healthy Food and Ecosystem Services
- ❖ Creating Opportunity
- ❖ Values-Driven
- ❖ Knowledge/Wisdom
- ❖ Open and Diverse
- ❖ Nature as Ally
- ❖ Inclusive and Multi-Generational
- ❖ Urban Dwellers as Customers and Investors
- ❖ Government as Supporter and Technical Assistance Provider
- ❖ Resilient



Carbon footprint breakdown per kg of White Oak Pastures' beef



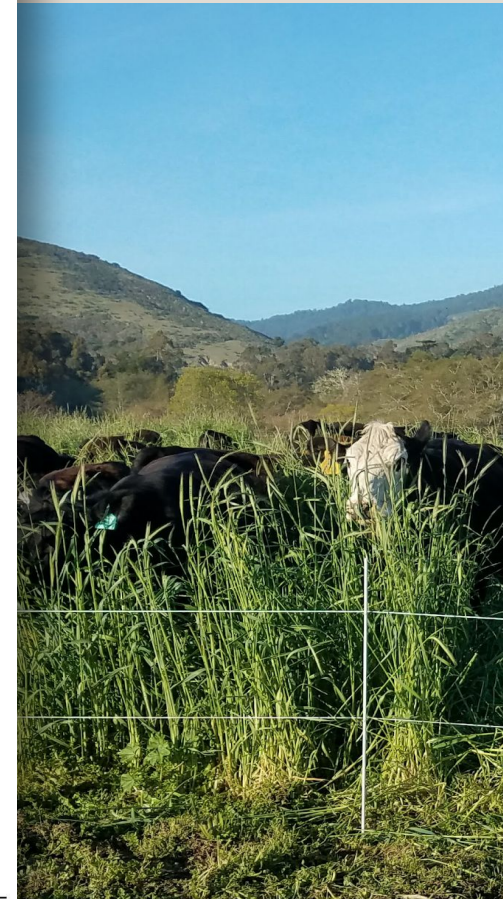
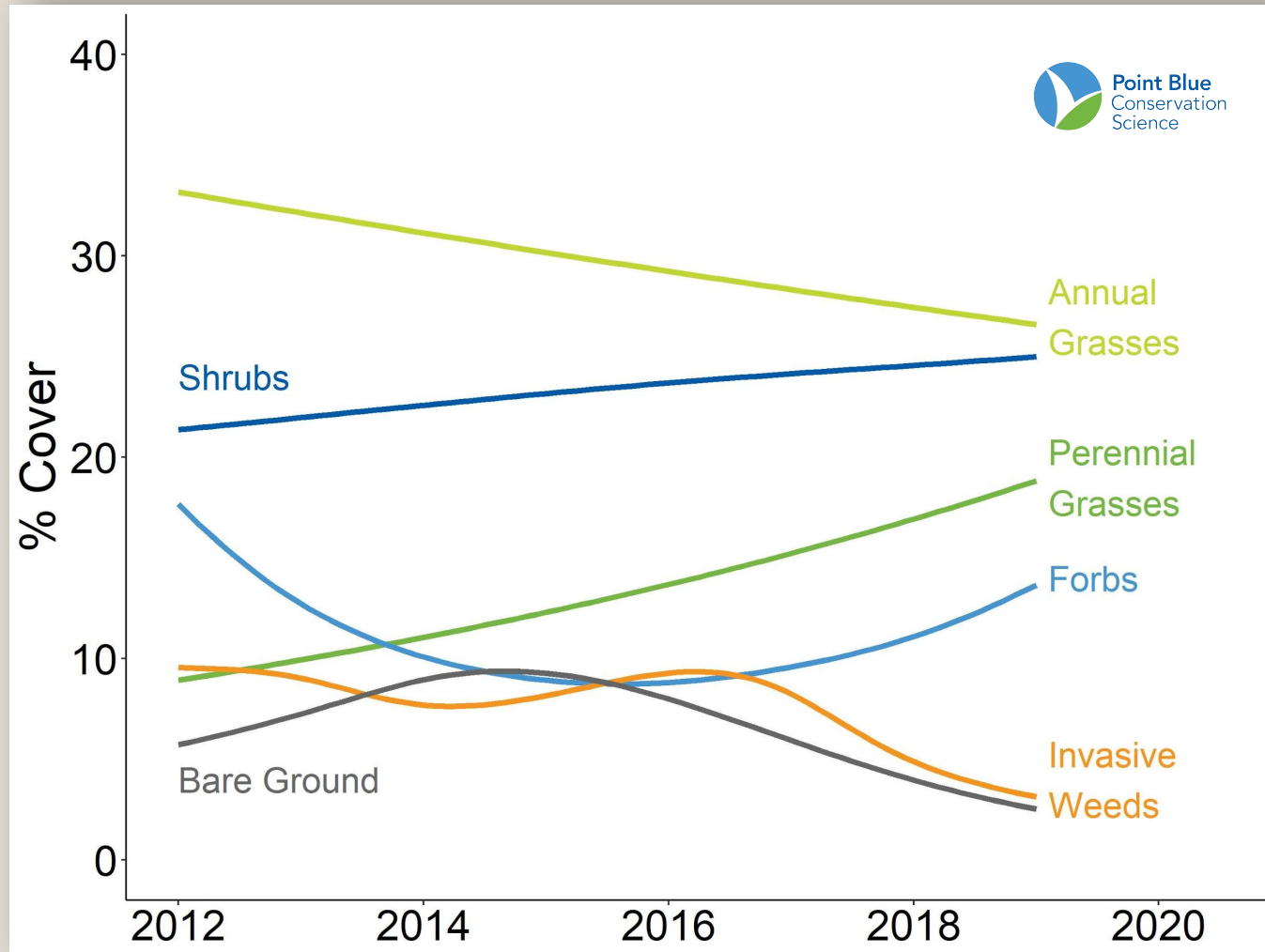
RANCH DATA PROJECT. CHANGES AT TOMKAT RANCH.



Presence of Native Perennial Grasses on TomKat Ranch after Implementing Planned Livestock Grazing*

* Henneman, Carlene & Seavy, Nathaniel E. & Gardali, Thomas. "Restoring Native Perennial Grasses by Changing Grazing Practices in Central Coastal California." *Ecological Restoration*, vol. 32 no. 4, 2014, pp. 352-354.

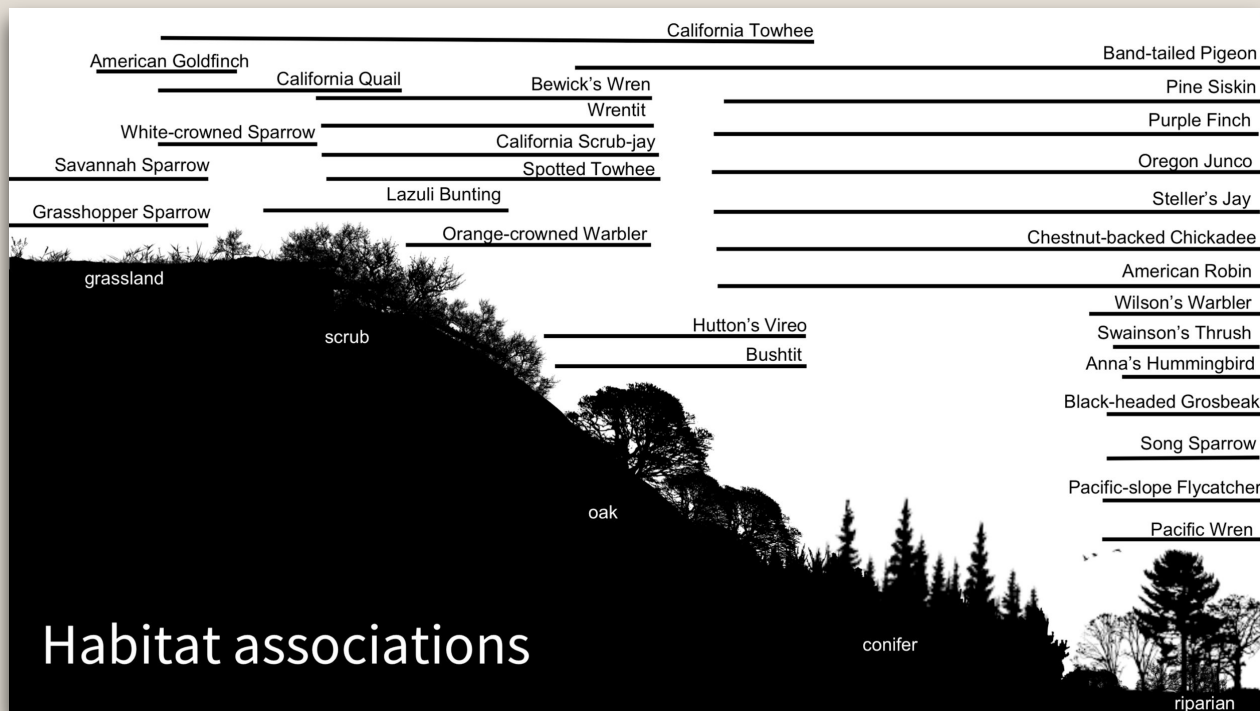
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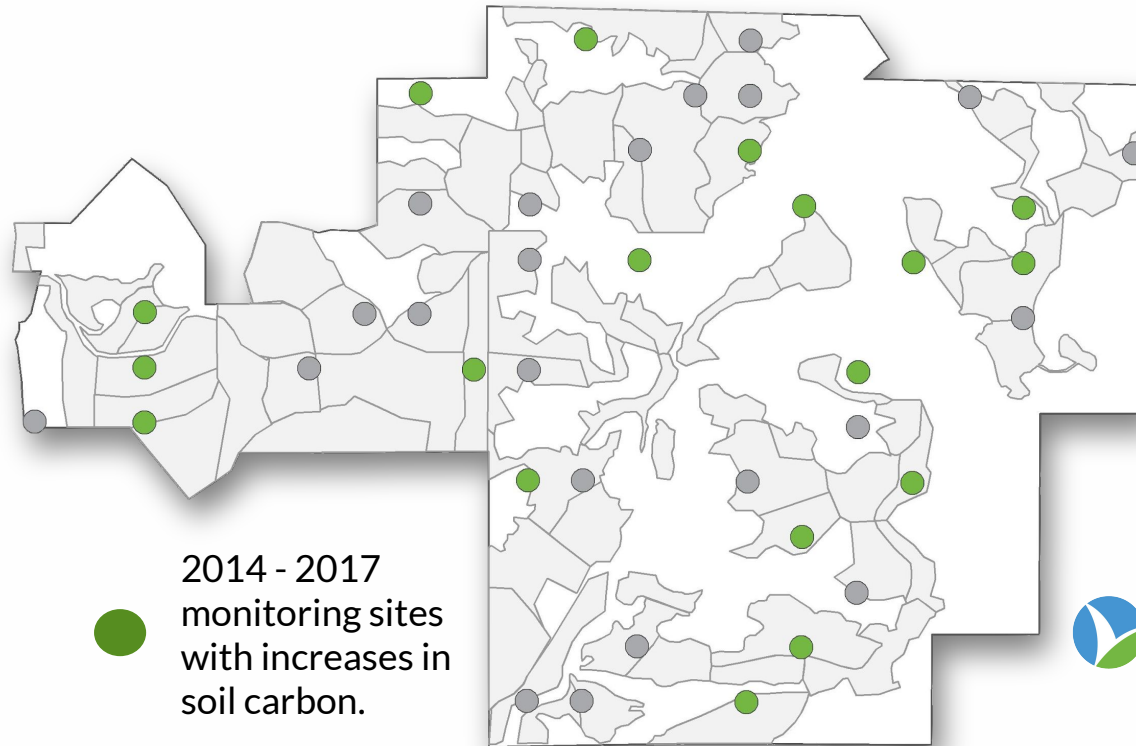
RANCH DATA PROJECT. CHANGES AT TOMKAT RANCH.



- ❖ TomKat Ranch is home to over 100 migratory and year-round bird species.
- ❖ Some species, such as Swainson's Thrush and Song Sparrow, have increased on the ranch despite an observed decline across Coastal California.



RANCH DATA PROJECT. CHANGES AT TOMKAT RANCH.



SOIL COMPACTION

- ❖ 67% of points meet or exceed NRCS goals.
- ❖ Between 2015-18, bulk density on the ranch improved on average.

WATER INFILTRATION

- ❖ 36 monitoring sites infiltrate at 5 minutes or faster per inch of precipitation.
- ❖ Ranch average infiltration is 9.8" per hour. A 100-year storm in SF is 1.32" per hour.

SOIL CARBON

- ❖ Average soil carbon on ranch 4%.
- ❖ During intense drought 46% of monitoring sites still gained soil carbon at 0-10 cm, 10-40 cm, or both.

A VISION FOR THE FUTURE.

REGENERATIVE RANCHING



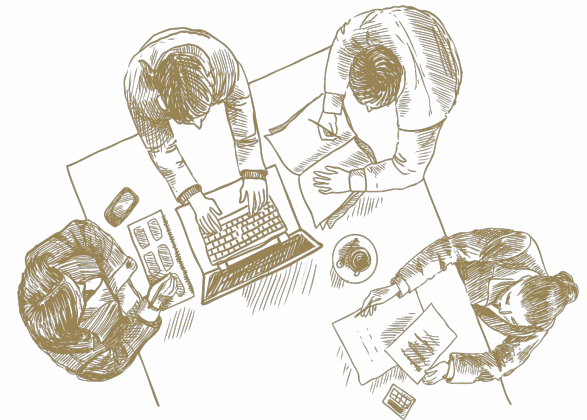
Demonstrate the practices and benefits of regenerative rangeland management and support the tools that speed its adoption.

FORK TO FARM



Influence the way society eats in order to accelerate adoption of regenerative agriculture.

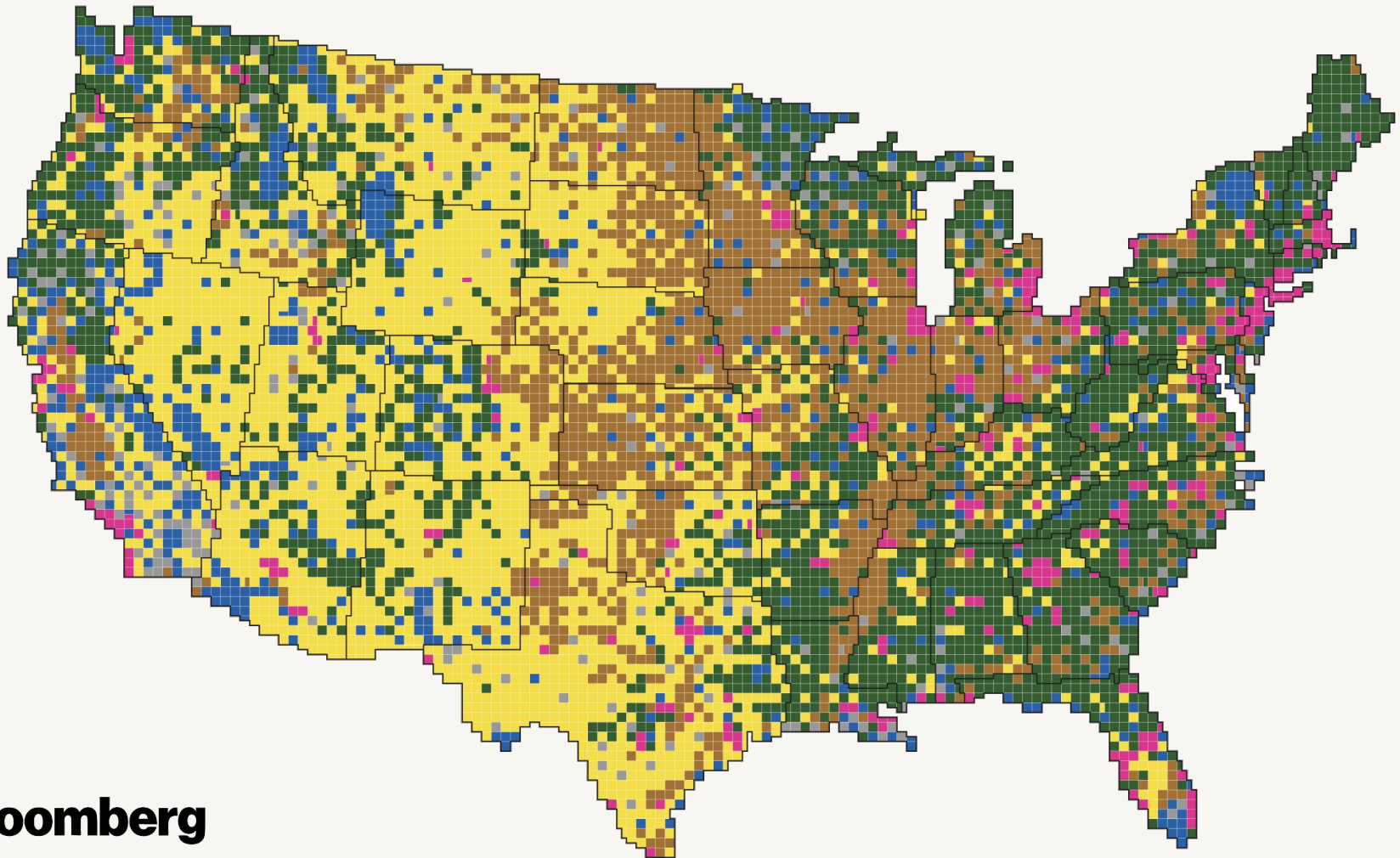
GATHERING FOR ACTION



Bring people together for meaningful conversations and collaborations that catalyze the transition to a regenerative agriculture system.

POTENTIAL. WHY RANGELANDS?

■ Pasture/range ■ Forest ■ Cropland ■ Special Use ■ Miscellaneous ■ Urban
■ = 1 million acres



Bloomberg

A group of cattle, including several black and white Friesians and a few brown ones, are standing in a lush green field. The background shows a clear blue sky with wispy white clouds and distant hills.

PLEASE JOIN US.

Please email us at Reachout@TomKatRanch.org with any questions or comments.