



*Promoting Seed
Business in
the Americas*

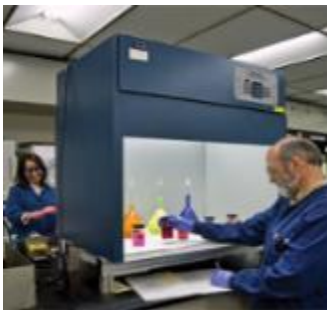
*September 9 - 11, 2019
Buenos Aires, Argentina*

Milliken's Seed Treatment Polymers

Adam Wilson







Spartanburg, SC



Pune, India



Gent, Belgium



Singapore



Shanghai, China



Sao Paulo, Brazil

150
years of Milliken.

You come in contact with Milliken products close to 50 times a day



In your Home

Making food storage containers strong and clear. Making duct tape both strong and tearable. Making your mattresses fire-resistant. Adding color to detergents, sponges, bowling balls and washable paints and markers.

At Work

In the infrastructure that delivers fiber optic cable. In the military uniforms and industrial workwear that protect the wearers. As corporate and government floor coverings. Making farming more efficient and effective.

At Play

Improving comfort in school sports gear, shoes and uniforms. In helmets, playground equipment, watercraft and race car air dams



At Retail

From caps to bottles to blister packaging. As retail floor coverings

In Public Spaces

Making golf courses greener. In bridges, boat ramps, ditches. Making active wound dressings. In hospital, education and senior living centers.

When Traveling

As the floor coverings and fabrics in airports, hotels and restaurants. In luggage and in automotive airbags, tires, belts & hoses, and plastic parts



SHAPING MILLIKEN
FOR THE FUTURE

MILLIKEN 2025 GOALS SUPPORT THESE UNITED
NATIONS SUSTAINABLE DEVELOPMENT GOALS.



3 GOOD HEALTH AND WELL-BEING 	5 GENDER EQUALITY 	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	13 CLIMATE ACTION

2025 PLANET GOALS

Reducing our global footprint to
increase our global impact



Reduce indexed greenhouse gas emissions,
water usage, and solid waste by **25%**



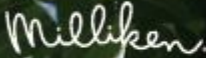
ZERO waste to landfill



Increase renewable energy use **10X**



ZERO environmental violations



PLANTING THE
SEEDS TODAY
FOR A GREEN
TOMORROW

MILLIKEN ARBORETUM

The nationally registered Milliken Arboretum has been thoughtfully created and nurtured by Milliken over the last six decades. It embodies our commitment to environmental stewardship with the intent that the trees will live past our lifetimes and allow the beauty we experience today to be enjoyed for generations.

600
acres

250+
cultivars

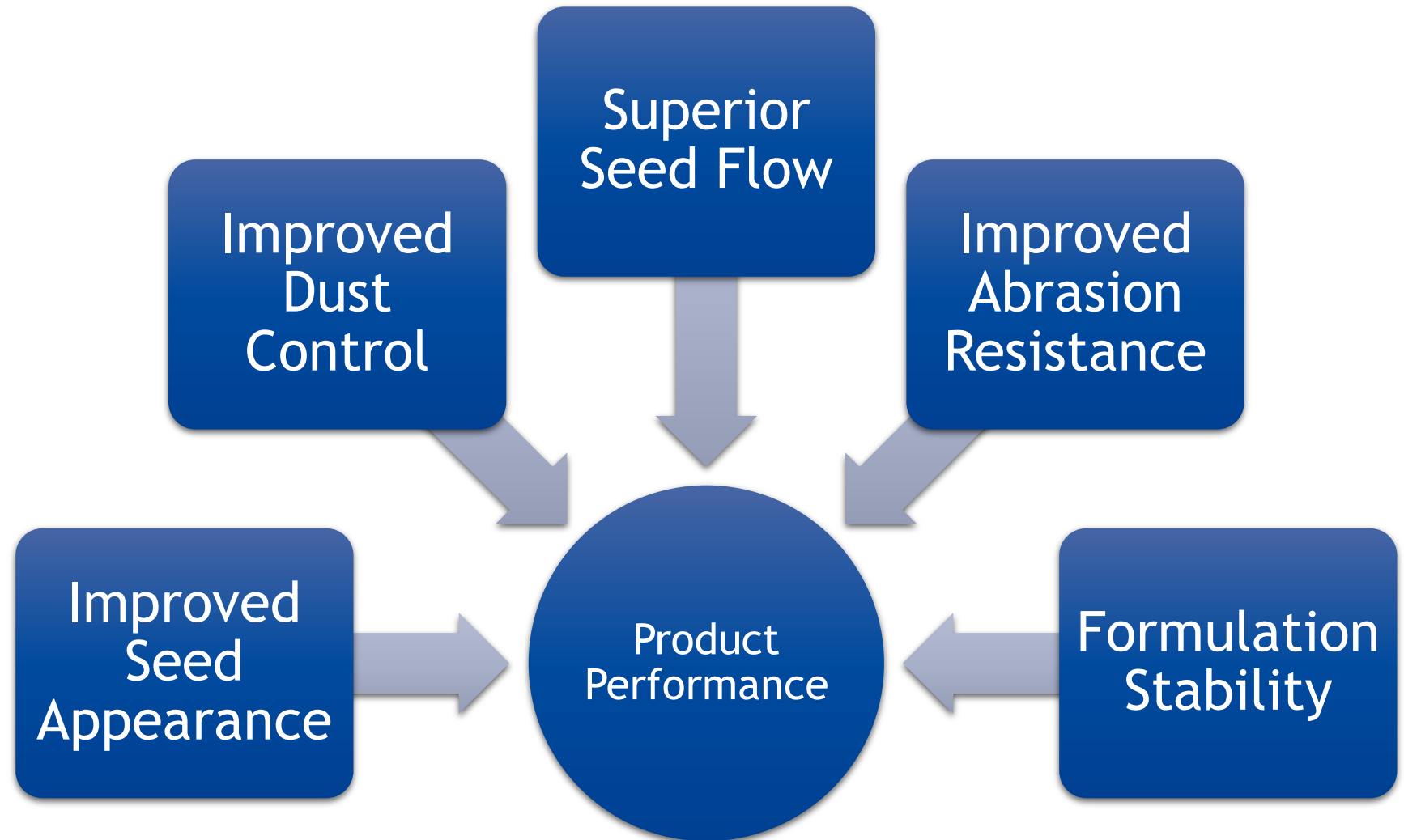
365
days per year
open to
the public

PROMOTING SUSTAINABLE FARMING

Milliken's Treating Solutions™ advanced seed treatment technology help protect the seed, reduce excess use of chemicals, prevent dust-off contamination, and improve farmer safety by improving flowability, plantability, and handling. These EPA-approved seed coating colorants and polymers help promote sustainable and more efficient farming.









Flowability: In plant seed processing, bridging, overall handling



Dust-off / Abrasion Resistance: keep the Als on the seed.

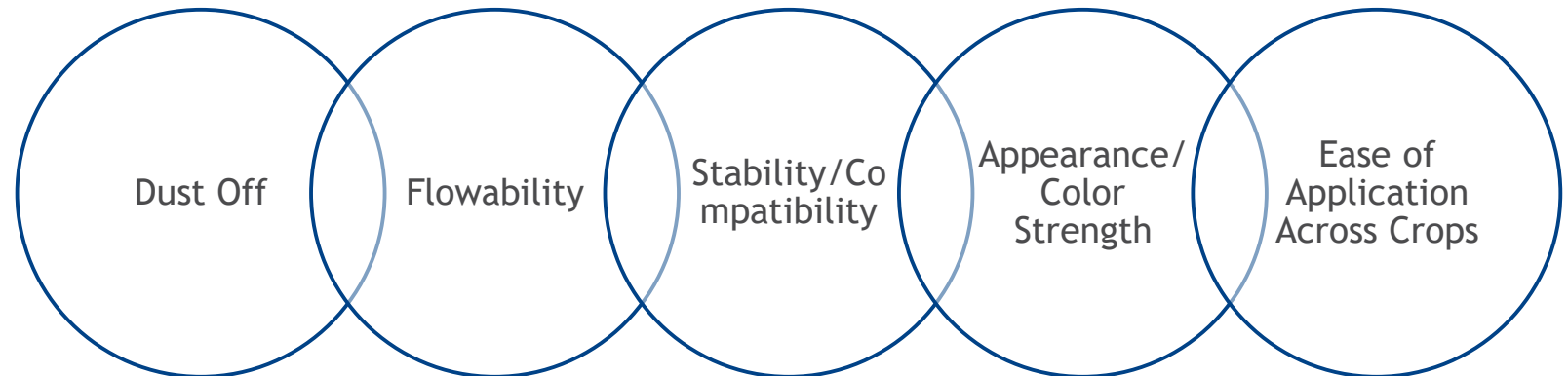


Plantability: Spacing and Population directly relate to yield

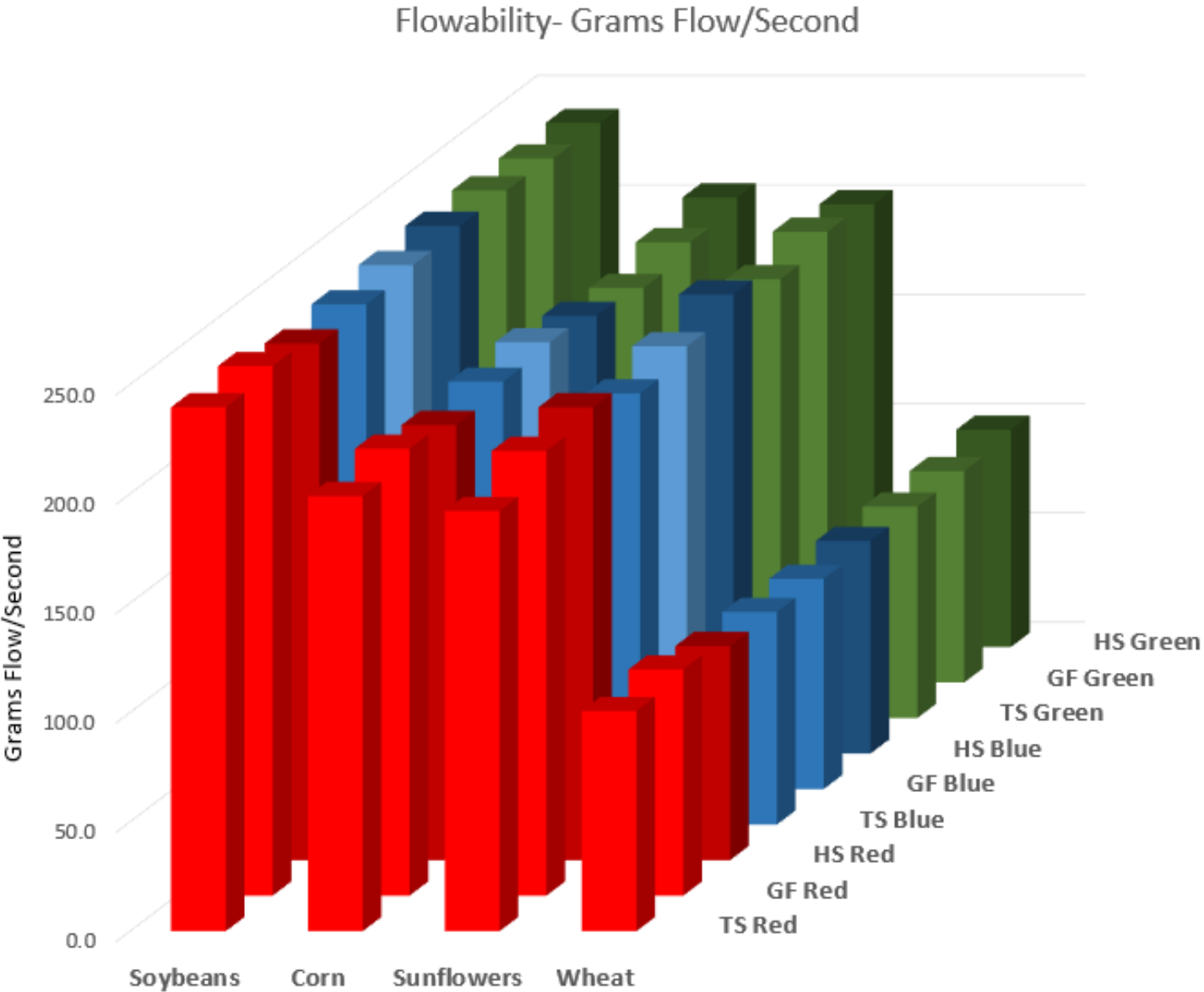




Overall Formulation Objectives:



Formulation Development Testing



TS= Treating Solutions GF= Global Formulations HS= High Strength

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Polymer and Color advancements to improve abrasion resistance



Commercial Polymer A



Benchmark



Prototype

*Heubach: 5 min, 40 rpm, 20 L/min airflow

Questions?

Milliken™



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