

Pipeline products



**EFSA Scientific Hearing with Applicants
March the 21st, 2007**

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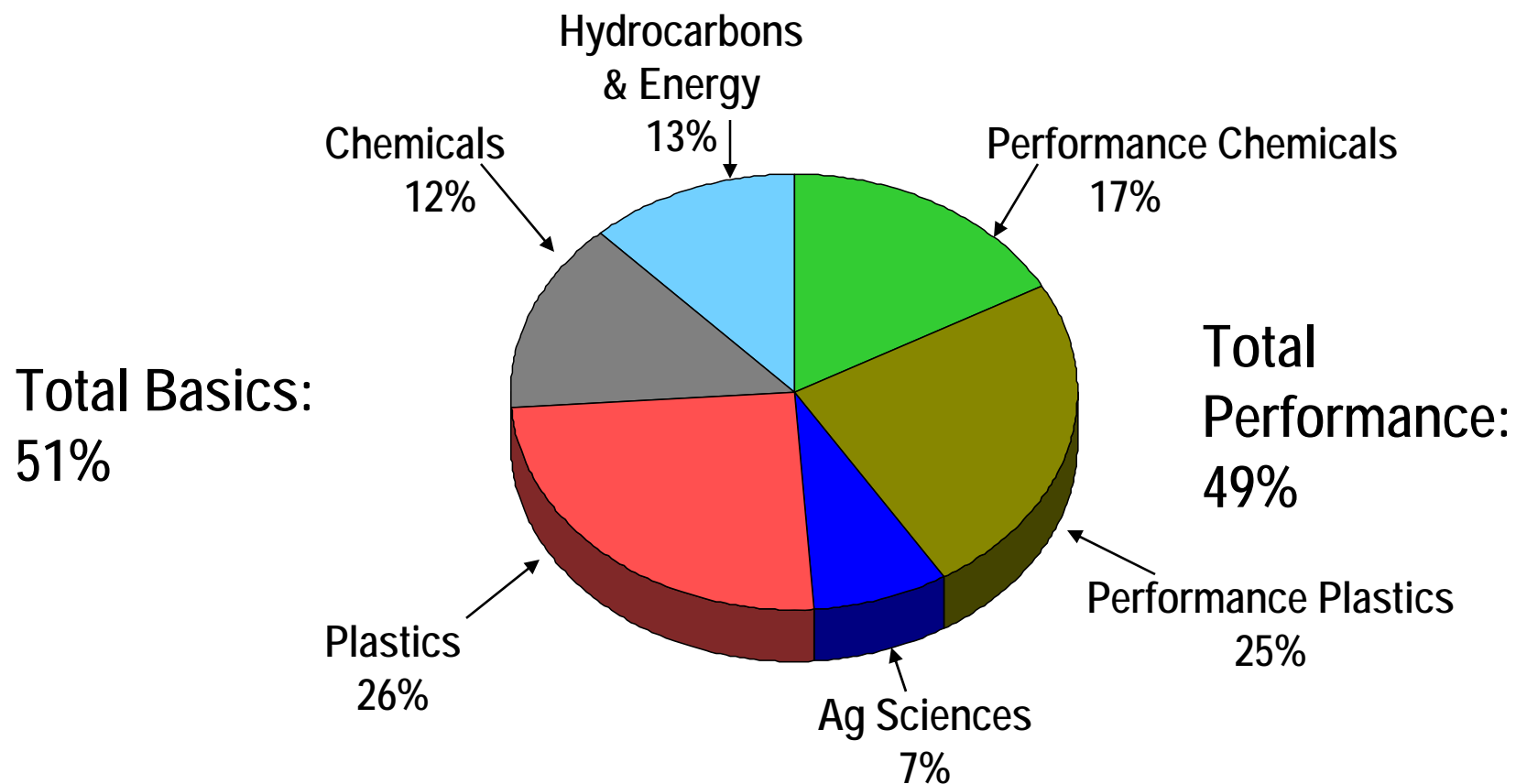
About Dow ...

- A science and technology leader with annual sales of \$46 billion
- Founded in 1897 by Herbert H. Dow in Midland, Michigan
- Supplies more than 3,300 products to customers in 175 countries
- From 156 manufacturing sites in 37 countries
- Employs 42,000 people globally





2006 Portfolio: Revenues--update



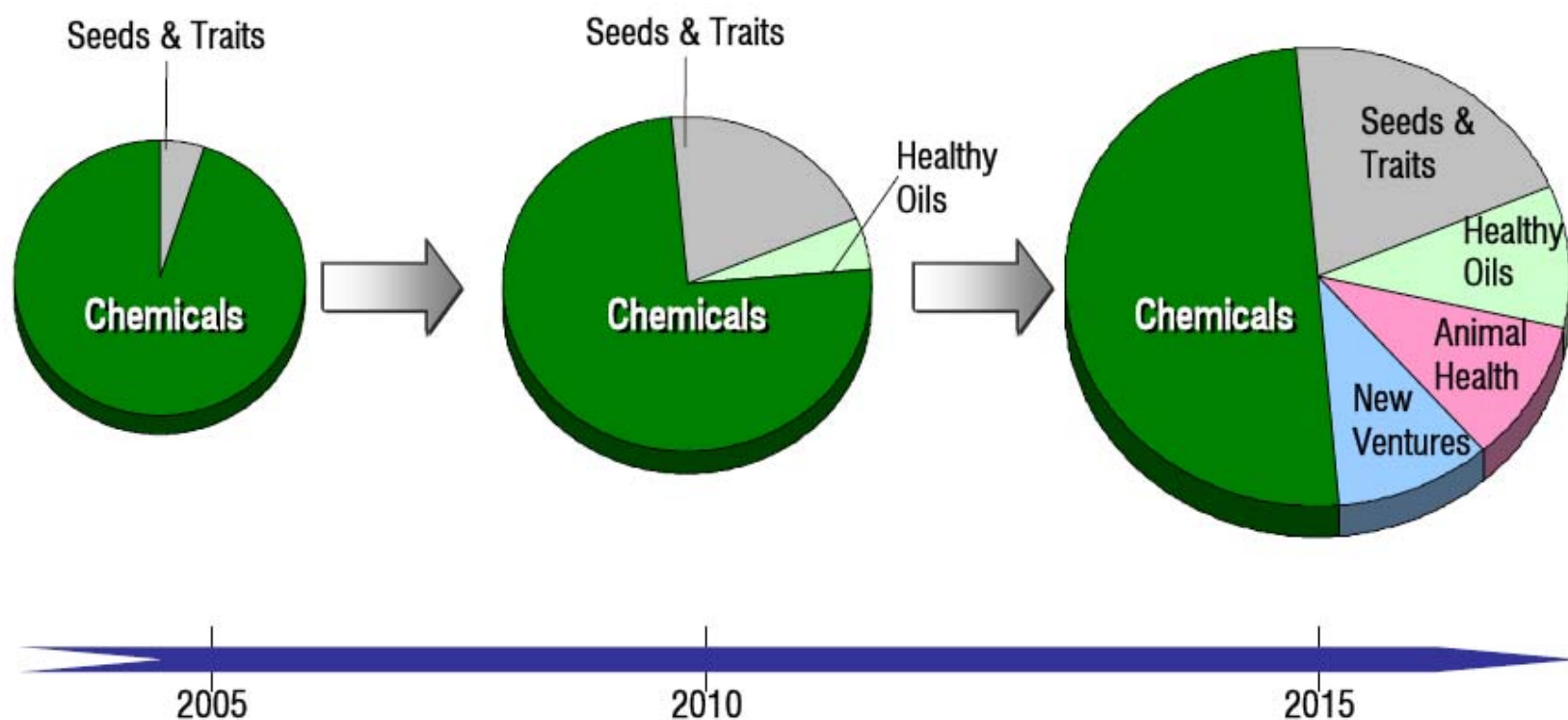
Balanced Business Mix

Goals and Strategies



- At Dow AgroSciences, R&D is focused on accelerating innovation
- We continue to invest in developing crop protection chemicals and at the same time we are intensely focused on advancing science in **plant genetics and biotechnology** through: **seeds** and **traits** as well as new platforms such as **healthier oils** and **animal health vaccines**
- Our R&D investment proportion in biotechnology is growing and will be half of our Discovery R&D investment by the end of 2006

Strategy Focused on Growth



Overall Product Pipeline

Agricultural Chemicals

Herbicides

- Broad-spectrum multi-crop herbicide
- Cross-spectrum cereal grass herbicide

Insecticides

- Naturally-originating products
- Sucking insecticide
- Lepidopteran insecticide

Fungicides

- Broad-spectrum cereals, fruit and vegetables

Biotechnology

Corn

Yield enhancement

- Insect resistance
- Herbicide tolerance

Animal Nutrition

- High energy
- Low phytate
- Improved digestibility
- Essential amino acids

Cotton

Yield enhancement

- Insect resistance
- Herbicide tolerance







Quality traits

- Fiber quality
- ### Healthier Oils
- No-sat Natreon oil
 - High oil content
 - Novel oil seed processing
 - Yield enhancement

Animal Health

- Plant-cell-produced vaccines
- West Nile Virus

Current EU Product Pipeline

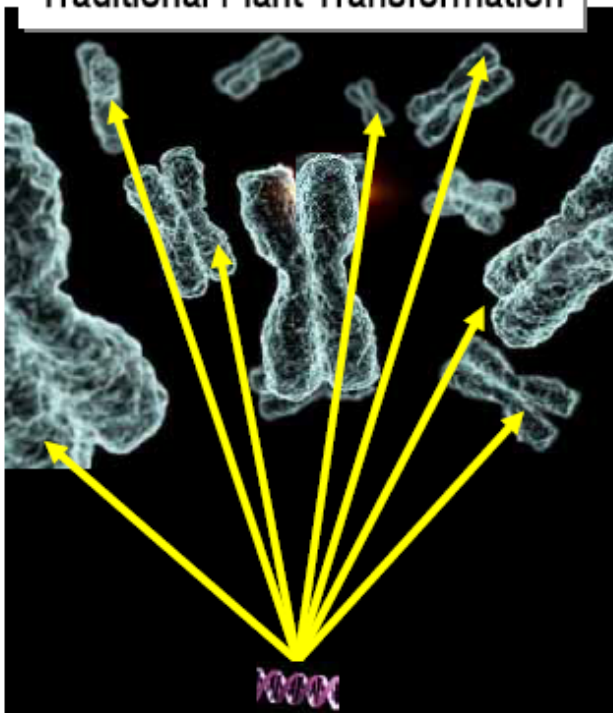
Event	Traits	Trade Name	EU lead	Product profile
1507, TC1507, 1507 Maize	Cry1F and PAT		Pioneer over DAS	Resistant against certain lepidopteran (<i>Ostrinia nubilalis</i> and <i>Sesamia</i> spp.) and tolerant to glufosinate ammonium herbicide.
59122, 59122 Maize	Cry34/35Ab1 and PAT		Pioneer over DAS	Resistant against certain Coleopteran insect pests (<i>Diabrotica</i> spp.) and tolerant to glufosinate ammonium herbicide.
1507xNK603, 1507xNK603 maize	Cry1F and CP4-EPSPS and PAT		Pioneer over DAS	Resistant against certain lepidopteran (<i>Ostrinia nubilalis</i> and <i>Sesamia</i> spp.) and tolerant to glufosinate ammonium and glyphosate herbicides.
1507x59122, 1507x59122 maize	Cry1F and Cry34/35Ab1 and PAT		DAS over Pioneer	Resistant against certain lepidopteran (<i>Ostrinia nubilalis</i> and <i>Sesamia</i> spp.) and against certain Coleopteran insect pests (<i>Diabrotica</i> spp) and tolerant to glufosinate ammonium herbicide.
1507x59122xNK603, 1507x59122xNK603 maize	Cry1F and Cry34/35Ab1 and CP4-EPSPS and PAT		Pioneer	Resistant against certain lepidopteran (<i>Ostrinia nubilalis</i> and <i>Sesamia</i> spp.) and against certain Coleopteran insect pests (<i>Diabrotica</i> spp) and tolerant to glufosinate ammonium and glyphosate herbicides.
281-24-236/3006-210-23 cotton	Cry1F and Cry1Ac and PAT		DAS	Resistant against certain lepidopteran (<i>Heliothis virescens</i> and <i>Pectinophora gossypiella</i>).

Future Technological Platform



Site specific transformation

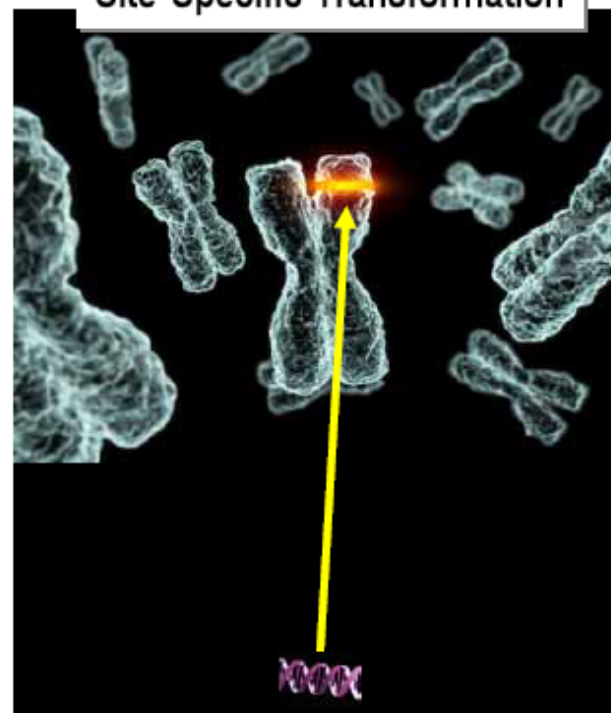
Traditional Plant Transformation



Random Integration

VS.

Site-Specific Transformation



Surgical Precision

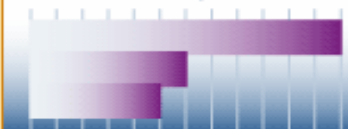
Healthier Oils Platform

Oil seed rape and sunflower



Less is More

With up to 50% longer fry life than other cooking oils, you get more performance with less oil...and a better bottom line.



Omega-9 Oils. Healthier oils. Healthier Business.

Omega-9 Canola and Sunflower Oils have a light, clean taste, and represent the "next generation" of food industry oils because they have zero trans fat, the lowest amount of saturated fat among oils, and the highest level of heart-healthy monounsaturated fat, with superior performance, and availability now.



In the News



[Dow AgroSciences Increases Production To Support Taco Bell Decision To Use New High-Stability Canola Oil.](#)



[Church's Chicken Restaurants in Canada Switching to Trans Free Oil.](#)

Make the Switch!



[NYC Restaurants Can Comply With the Trans Fat Ban By Switching to Omega-9 Oils.](#)

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Healthier Oils Platform

Oil composition

These oils, made from Dow AgroSciences NEXERA™ canola and sunflower seeds, have a unique combination of high oleic (>70 percent) and low linolenic (<3 percent) fatty acids. This patented profile gives the oils their outstanding flavor and performance attributes

Omega-9 Oils are healthier because they have extremely low trans fat and have the lowest amount of saturated fats among oils, allowing restaurants to reduce bad (trans and sat) fats by up to 80 percent.

Great Taste, Superior Performance, & Outstanding Health

Oil	AOM	Oleic C18:1	Linoleic C18:2	Linolenic C18:3	Total Sats	Total Trans	Trans + Sats
Omega-9 Canola Oils	AOM 42	73.7%	14.8%	2.5%	6.7%	1.0%	7.7%
Omega-9 Sunflower Oils	AOM 50	87.6%	4.5%	0.0%	9.0%	0.2%	9.2%
PH Canola	AOM 25	79.0	7.5	0.3	11.2	18.6	29.8
Canola	AOM 15	62.2	19.1	9.3	7.5	1.8	9.3
Low Linolenic Canola	AOM 20	64.1	22.6	3.6	7.7	1.3	8.9
PH Soybean	AOM 25	49.6	30.7	2.0	16.2	19.5	35.7
Soybean	AOM 14	22.8	53.6	8.2	15.0	1.6	16.6
Low Linolenic Soybean	AOM 18	26.0	55.0	3.0	16.0	2.0	18.0

PH=Partially Hydrogenated

Animal Health Platform



Plant cell vaccines

Dow AgroSciences is applying its expertise in plant genetics and biotechnology to revolutionize the animal health field with plant-cell-produced vaccines. Plant-cell-produced vaccines are a type of plant-made vaccine, that hold great promise to improve animal health with minimal environmental impact .



Dow AgroSciences' plant-cell-produced vaccines use just the cells of the plant in a fully enclosed bio-contained facility. These plant-cell-produced vaccines provide efficacy without compromising environmental safety



Through collaboration with scientists from world-leading public and private institutions, Dow AgroSciences is helping veterinarians and animal health care professionals safely put the power of prevention to work to improve the health, care and well-being of animals



Animal Health Platform



Overall benefits

Plant-cell-produced vaccines offer many benefits over animal-cell-produced vaccines

Feature	Advantage	Benefit
Non-replicating sub-units	No shedding or reverting to virulence	Less stress to animal
No components of animal origin	Free of adventitious (extraneous) agents	Bio-secure supply
Bio-contained	Environmentally safe	Sterile production
Highly stable	Easier to store and handle	Consistent performance

Are uniquely suited to produce subunits that cannot revert to virulence and shed to other animals in the same environment

Can be targeted against the specific parts of the disease agent that are required for immunity since only the subunit goes into the vaccine

Eliminate the risk of animal virus contaminants associated with current production systems

Are produced in a totally bio-contained process – a sealed and sterile environment

Are highly stable and thus provide storage and handling advantages along with consistent performance

Animal Health Platform



Milestones

- **Dow AgroSciences Achieves World's First Registration for Plant-Made Vaccines**
- Indianapolis, IN - January 31, 2006: Dow AgroSciences LLC, a wholly owned subsidiary of The Dow Chemical Company, (NYSE: DOW), announced today that it has received the world's first regulatory approval for a plant-made vaccine from the United States Department of Agriculture (USDA) Center for Veterinary Biologics. This approval represents an innovative milestone for the company and the industry.
- **Dow AgroSciences Animal Health Division Selected as Finalist for Best in the Industry Excellence Award** (*Company's Revolutionary Plant-Made Vaccine Technology Honored by International Panel*)
- Indianapolis, IN - October 13, 2006: Dow AgroSciences, a wholly owned subsidiary of The Dow Chemical Company (NYSE: DOW), announced today that it has been recognized internationally for its contributions to the animal health industry. The company's Animal Health business was honored as one of three finalists in the first annual *Animal Pharm* Industry Excellence Awards in the category of Best Technical Innovation. The Dow AgroSciences technology earning the honor was the company's revolutionary Concert™ Plant-Cell-Produced vaccine production system.