Cargill and Royal DSM to establish Avansya JV

Bringing zero-calorie, cost-effective sweeteners to market faster

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Highlights of the Joint Venture

- Cargill and Royal DSM to establish a joint venture, Avansya, to bring zero-calorie, great-tasting, cost-effective sweeteners to market faster. The establishment of the JV is subject to regulatory approvals and other customary closing conditions, but expected to be finalized in Q1 2019
- Avansya will be a 50-50 partnership between Cargill and DSM; DSM will consolidate its 50% interest in its group results (sales, adj. EBITDA)
- Avansya will produce highly sought-after, sweet-tasting molecules, such as steviol-glycosides Reb M and Reb D, through fermentation, giving food and beverage manufacturers a more scalable, sustainable and low cost-in-use solution than if these same molecules were extracted from the stevia leaf
- Avansya will leverage the two companies' highly complementary strengths for bringing to market fermentation-derived Reb M and Reb D steviol glycosides
- Avansya will make use of a new fermentation facility being built at the site in Blair, Nebraska (USA), which is expected to be completed and operating in summer 2019



Unique Market Opportunity Consumers and governments globally are moving away from sugar



- Food and beverage producers look to significantly reduce calories in their offerings to consumers
 - Growing need for non-artificial, zero-calorie, great-tasting sweetener options
- Fermentation-derived naturally-occurring molecules, such as steviol glycosides Reb M and Reb D, are perfectly positioned to profit from key trends driving today's food ingredients segment



Consumers and governments globally are moving away from sugar

THE IRISH TIMES

Sugar tax set to be introduced in budget due to obesity concerns

FINANCIAL TIMES

Mexico urged to double tax on sugary drinks

THE HUFFINGTON POST

Sugar Is Not Only a Drug but a Poison Too

theguardian Childhood obesity: retailers urge mandatory cuts to food sugar levels Herald Sun Hidden sugar harms our children's teeth and health

CM Money

Philadelphia passes a soda tax

South China Morning Post

Hong Kong impose a sugar tax and warning labels

TIME

Sugar Is Definitely Toxic, a New Study Says

DSM

Avansya well positioned Replacing sugar - a matter of multiple functionalities

- Stevia is the most important, natural, high-intensity sweetener
 Reb M and Reb D are the most interesting molecules, offering the best taste profile (but only available in very low concentrations in Stevia leaves)
- Fermentative Reb M and Reb D provide a more scalable, sustainable and lower cost-in-use solution than any other available technology:
 - Great taste, consistent quality, reliable supply, sustainable production, affordable for customers and consumers
 - Fermentative Reb M and Reb D are well-positioned to replace existing artificial high-intensity sweeteners (aspartame, sucralose, Ace-K, etc.), as well as reduce the use of all other high caloric sweeteners
- Market opportunity for fermentative high-intensity sweeteners is expected to grow to >€3bn by 2025
- Replacing sugar is not only a matter of replacing sweetness
 - With their broad product offering (e.g., textures), both partners are well positioned to address sugar's multiple functionalities



DSM and Cargill combining forces to speed up route-to-market



- Unique biotechnology & fermentation know-how, including strain development
- Broad expertise and application know-how in human nutrition
- Global commercial footprint in Nutrition market



- Unrivalled application expertise and global commercial footprint in sweetener market
- Large-scale fermentation capacity
- Access to co-located raw material supplies in Blair, Nebraska (US)

Avansya

- Faster to the market: fermentation facility operational Summer 2019
- Lower costs (investment, technology, raw materials, operational)
- Unrivalled global market access through Cargill and DSM sales and application networks
- Creating strong platform, starting with Reb M and Reb D



DSM and Cargill contributing to UN Sustainable Development Goals



- Reducing Sugar content & calories; improving health & well-being
- A healthy, naturally sourced solution as alternative for sugar for food and beverage customers



 Significantly less impact on waterrelated ecosystems versus plant-based Stevia



 Sustainable management and efficient use of natural resources (land & water) as well as avoidance of chemical extraction



 Avoidance of use of arable land and use of water as well as waste of large parts of plant/leaves not applicable as sweetener



 Avansya, combining strengths of DSM and Cargill for sustainable development



Avansya expected to significantly contribute to DSM's large innovation projects



Avansya (50% consolidated) expected to make a higher earnings contribution vs. original standalone plan
 Sales potential of several hundreds of million US\$



