FAT AND OIL IN BAKERY PRODUCTS



Valeria Rapetti 23 May 2013

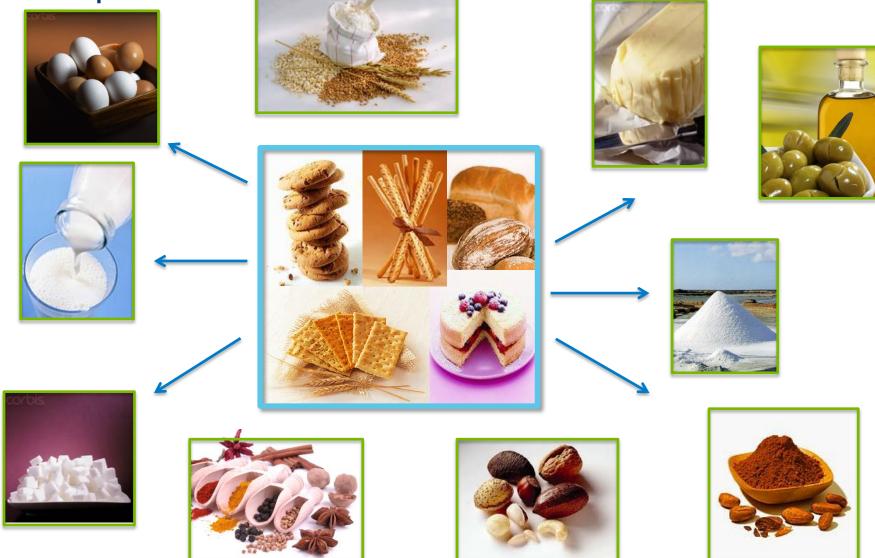






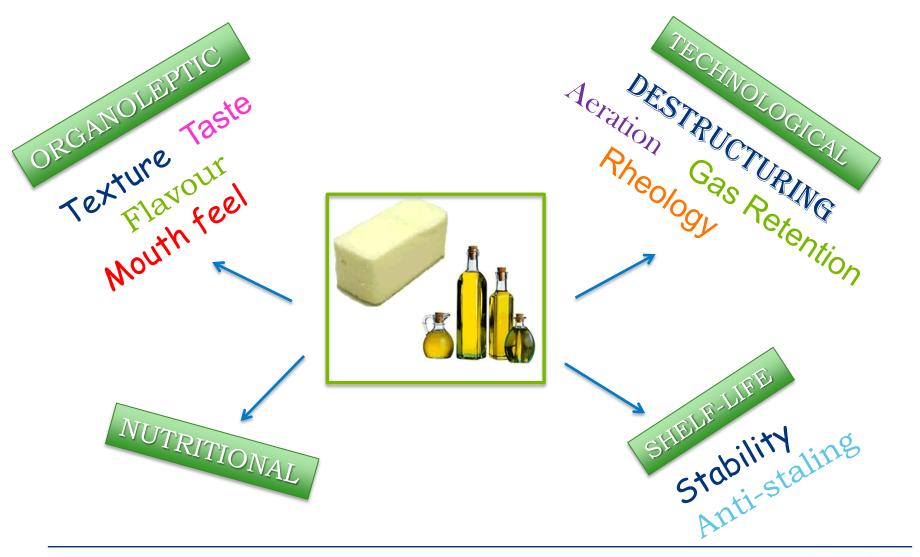


The fats and oils are a key part of bakery product's recipes





Oil and fat play a key role in bakery products





The average quantity of oils and fats in bakery products

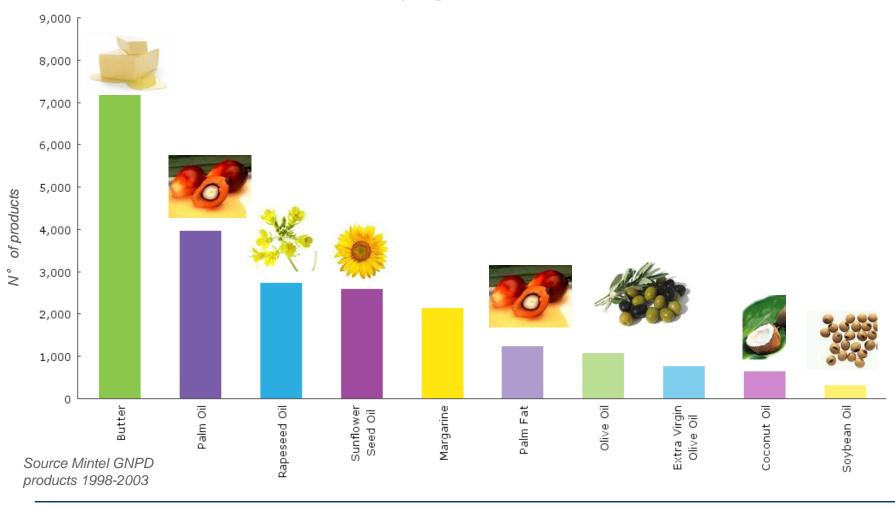
Product	Added Fat
Yeast Leavened	10-15%
Batter	12-18%
Sponge	3%
Biscuit	15-20%
Bread	2-5%
Rusk	3-5%
Bread stick	5-10%







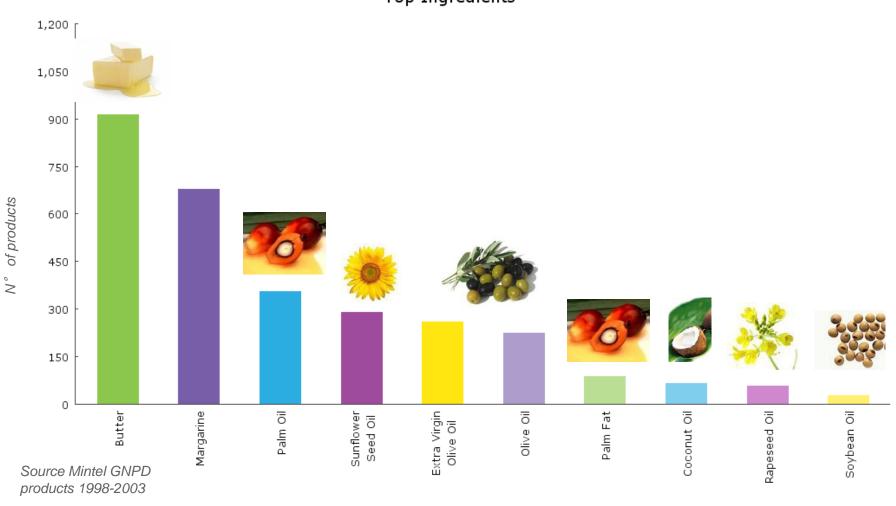
Butter and palm oil are the main fats used in bakery products in Europe



Top Ingredients



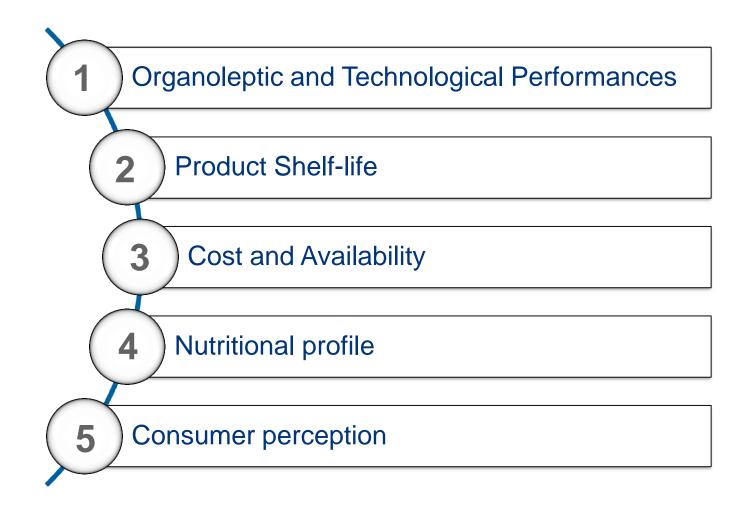
Butter and palm oil are also the main fats used in bakery products in Italy



Top Ingredients



There are 5 main drivers to select oils and fats for bakery products









Olive oil and Extra Virgin Olive Oil (EVOO)



Organoleptic and Technological Performances	 Suitable for soft bread, dry bread and savoury snacks due to typical taste and flavour. Impact on dough rheology during mixing and forming
Product shelf-life	 Critical for long-shelf-life bakery products due to oxidation process Oil release on product surface
Cost and Availability	 Medium price volatility Global availability is affected by Spain olives crop
Nutritional profile	 Very good due to the amount of unsatured fatty acids(~ 70% of MUFA and 10% of PUFA)
Consumer perception	 The oil of Italian and Mediterranean food tradition People know it very well and use it for cooking Healthy image







Seed oils: Sunflower and Rapeseed



Organoleptic and Technological Performances	 Suitable for all bakery products Impact on dough rheology during mixing and forming Impact on product texture
Product shelf-life	 High oleic oils are more stable than conventional ones thanks to fatty acid composition (75-80% MUFA) Oil release on product surface
Cost and Availability	 Low price volatility Good market availability from different geographical origin
Nutritional profile	 Very good due to the high amount of unsatured fatty acids (~ 80-90) and low amount of saturated fatty acids
Consumer perception	 Sunflower oil is well known and appreciated while rapeseed oil is not perceived as food oil in Italy Rapeseed oil is well-know in France and in the Nordics

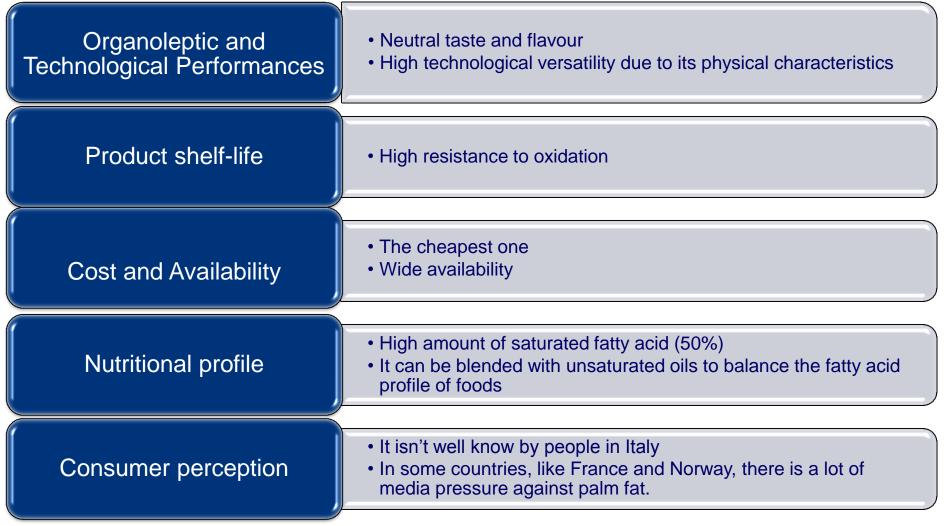






Palm fat





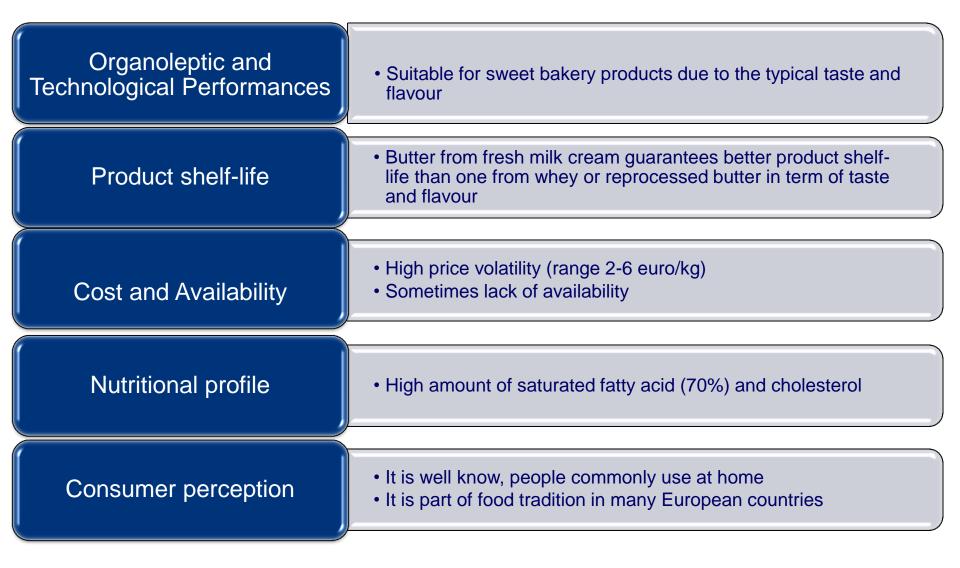






Butter











The key 4 rules to obtain good results in fat substitution

