

Research

## Piloting the Food loss and waste accounting and reporting protocole

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Senior specialist in Sustainability and Novel Packaging

# Nestlé at a glance

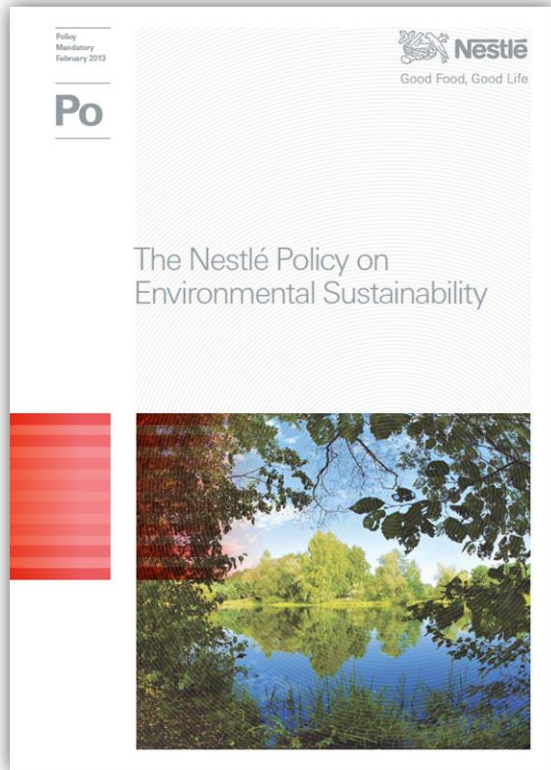


- CHF 89.5 billion in sales in 2016
- 328 000 employees in over 150 countries
- 418 factories in 86 countries
- 40 research, development and technology facilities worldwide
- Over 2 000 brands
- 1 billion Nestlé products sold every day



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# Our commitment to environmentally sustainable business practices



Full set of commitments is available at [www.nestle.com](http://www.nestle.com)

Our goal is that Nestlé products will be not only tastier and healthier, but also **better for the environment** along their value chain.

**By 2020** – Reduce GHG emissions (Scope 1+2) per tonne of product in every product category to achieve an overall reduction of 35% in our manufacturing operations versus 2010.

**By 2020** – Reduce GHG emissions by 10% in our distribution operations versus 2014.

**By 2020** – Achieve zero waste for disposal in our sites.

**By 2020** – Reduce direct water withdrawals per tonne of product in every product category to achieve an overall reduction of 35% in our manufacturing operations versus 2010.



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# We focus on :

- water preservation
- natural resources efficiency
- biodiversity conservation and no-deforestation
- air emissions reduction
- climate change adaptation
- zero waste



Appendix to The Nestlé Policy on Environmental Sustainability

## Nestlé Commitment to reduce food loss and waste

About one third of global food production is either wasted or lost every year.<sup>1</sup> Food waste not only generates superfluous greenhouse gas emissions<sup>2</sup> and wastage of water<sup>3</sup>, but also affects farmer income as well as the availability and cost of food. Hence, it contributes to inequality and undermines rural development. In this context, the UN will target food waste reduction as part of its post-2015 development agenda,<sup>4</sup> aiming by 2030 to halve per capita global food waste at retail and consumer levels and to reduce food losses along production and supply chains, including post-harvest losses.<sup>5</sup> Ever since its foundation in 1946, Nestlé has contributed to reducing food waste by transforming perishable raw materials such as milk, coffee beans and cocoa into safe, tasty and healthier value-adding food products. Over the last 10 years, Nestlé has more than halved, per tonne of product, the amount of waste for disposal<sup>6</sup> generated in its factories.

<sup>1</sup> IAD 2013, Food waste footprint (http://www.fao.org/media/19634/t/144.pdf)  
<sup>2</sup> UN System of CO2 Emissions  
<sup>3</sup> 2014  
<sup>4</sup> 2014  
<sup>5</sup> Draft resolution submitted by the President of the General Assembly - Report of the Open Working Group on Sustainable Development Goals established pursuant to General Assembly resolution 66/288  
<sup>6</sup> UN Open Working Group proposal for Sustainable Development Goals, Goal 12.3  
<sup>7</sup> <http://www.nestle.com/press/2014/04/14/041414.html>  
<sup>8</sup> Waste for disposal in any material generated during manufacture that is destined for final disposal to landfill or an incineration without energy recovery

As the leading Nutrition, Health and Wellness company, Nestlé is committed to further playing its part in helping to reduce food loss and waste. Not only will this help Nestlé to secure supply of the agricultural raw materials it sources, but it will also have a positive impact on society by supporting rural development, water conservation, and food security. This is in line with Nestlé's Creating Shared Value approach to doing business.

This public commitment serves to guide and align Nestlé's efforts to address food loss and waste. It complements the following documents: The Nestlé Corporate Business Principles, The Nestlé Policy on Environmental Sustainability, The Nestlé Supplier Code, and Nestlé Responsible Sourcing Guidelines.

- Specifically, Nestlé commits to:
- 1. Prevention, minimisation and valorisation** Nestlé will focus its efforts on:
    - **Eco-design**  
Nestlé assesses and optimises the environmental performance, including on food wastage, from the earliest stage in the development of new or renovated products and throughout the value chain.  
Nestlé's R&D network looks for innovative waste recovery options to optimise their value.
    - **Responsible sourcing**  
According to The Nestlé Supplier Code, Nestlé's suppliers shall optimise their consumption of natural resources and minimise solid waste, including food waste.



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**Nestlé Commitment on Climate Change**

February 2015

Increasing levels of anthropogenic greenhouse gases (AGG) in the atmosphere are causing global warming, sea level rise, and other adverse effects. These effects include the melting of glaciers and ice sheets, the rise in sea level, and the increase in the frequency and intensity of extreme weather events. These effects also include the loss of biodiversity and the degradation of ecosystems. Nestlé is committed to reducing its contribution to AGG and to supporting the global effort to address climate change. This commitment is based on the science of climate change and the need to protect the planet for future generations. Nestlé's approach is to reduce its own emissions, to support its suppliers in reducing theirs, and to invest in climate-resilient products and services. Nestlé's commitment is to reduce its own emissions by 20% by 2020, to support its suppliers in reducing theirs by 20% by 2020, and to invest in climate-resilient products and services by 2020.

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**Nestlé Commitment on Deforestation and Forest Stewardship**

February 2015

Deforestation is a major driver of climate change, biodiversity loss, and the degradation of ecosystems. Nestlé is committed to reducing its contribution to deforestation and to supporting the global effort to address deforestation. This commitment is based on the science of deforestation and the need to protect the planet for future generations. Nestlé's approach is to reduce its own deforestation, to support its suppliers in reducing theirs, and to invest in sustainable forest management. Nestlé's commitment is to reduce its own deforestation by 20% by 2020, to support its suppliers in reducing theirs by 20% by 2020, and to invest in sustainable forest management by 2020.

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**Nestlé Commitment on Water Stewardship**

February 2015

Water is a vital resource for life and for the development of societies. Nestlé is committed to reducing its contribution to water scarcity and to supporting the global effort to address water scarcity. This commitment is based on the science of water scarcity and the need to protect the planet for future generations. Nestlé's approach is to reduce its own water consumption, to support its suppliers in reducing theirs, and to invest in water-efficient products and services. Nestlé's commitment is to reduce its own water consumption by 20% by 2020, to support its suppliers in reducing theirs by 20% by 2020, and to invest in water-efficient products and services by 2020.

# The Nestlé commitment to reduce food loss and waste

## Food waste prevention, minimisation, valorisation

Eco-design



Responsible Sourcing



Packaging



Manufacturing and Distribution



Information and education

**Consumer Awareness**



**Harmonised food dating**



**Employee training**

Long-term engagement and partnerships



**CHAMPIONS 12.3**

UNEP WFP GMA

OECD FORUM WORLD RESOURCES INSTITUTE

Reporting

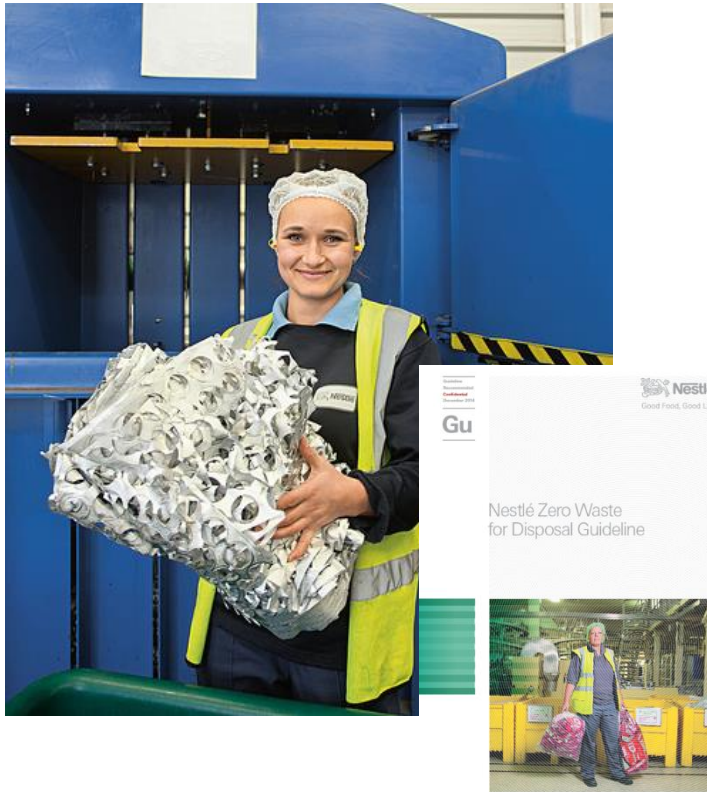


**www.nestle.com**



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# Achieving zero waste in our sites



182 factories and 66 distribution centres achieved zero waste for disposal in 2016

In 22 NESCAFÉ factories, coffee grounds recovered as a source of renewable energy.

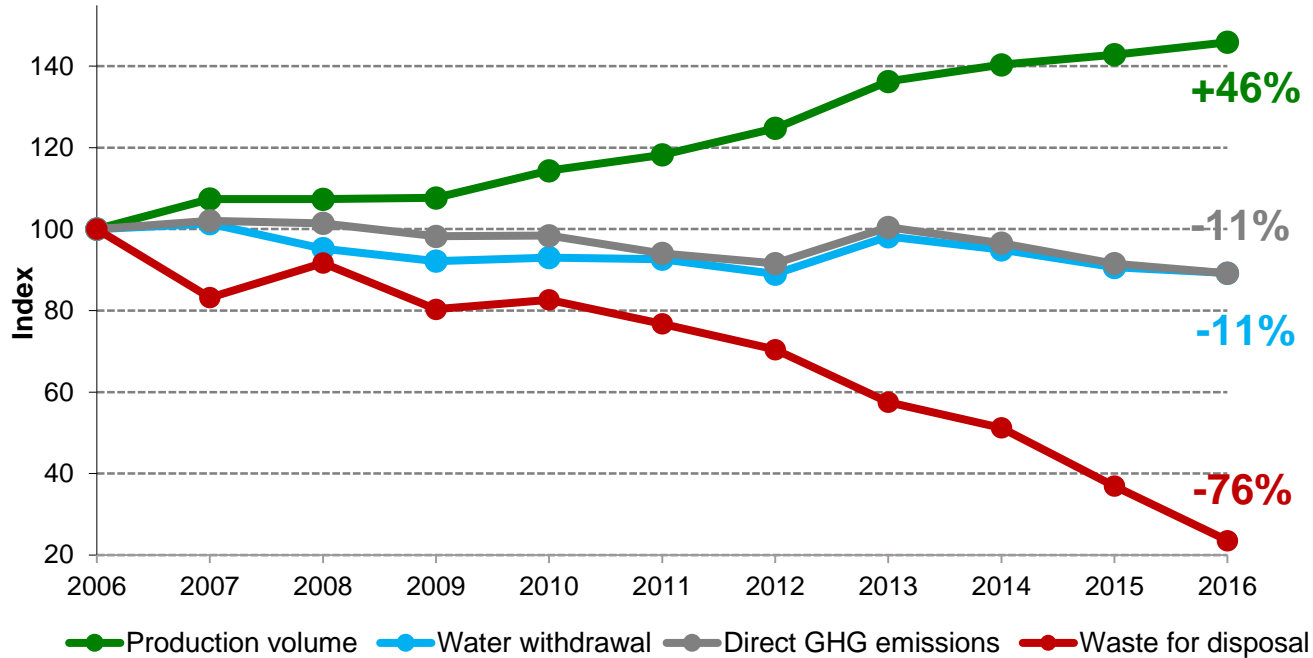
Sharing good practices to prevent waste from happening

Providing tools and examples to achieve zero waste for disposal

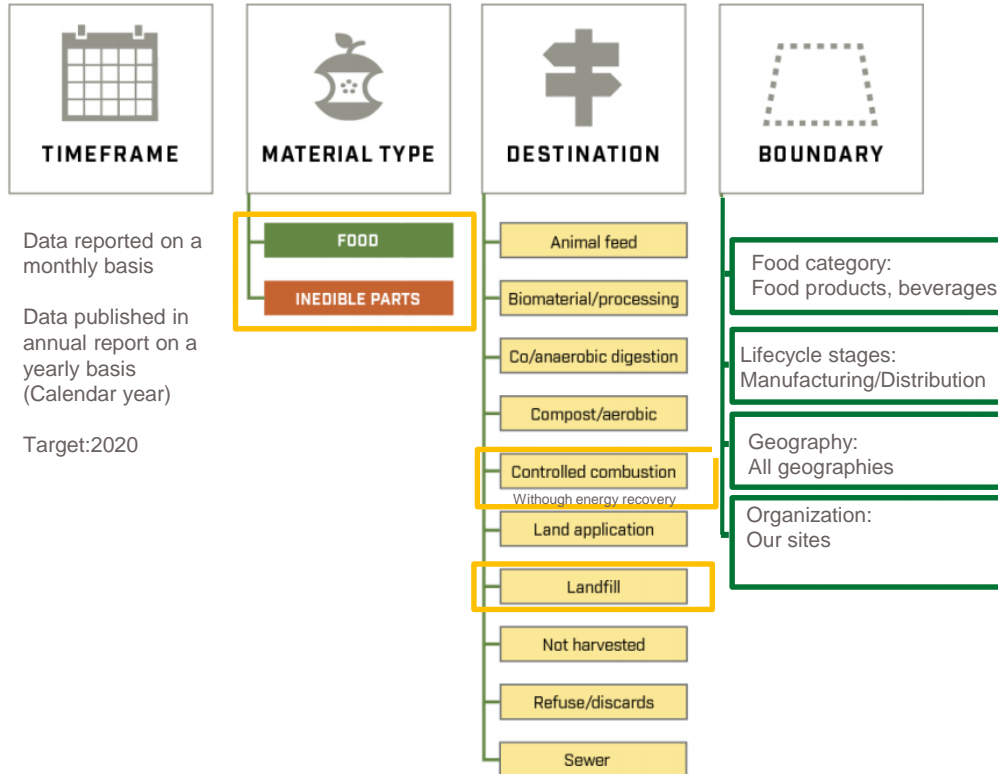


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# -76% waste for disposal over the last 10 yrs



# How is waste in our sites reported?

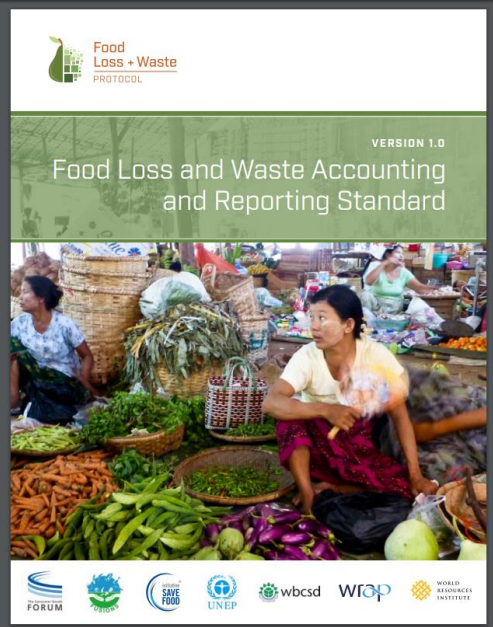


## Benefits:

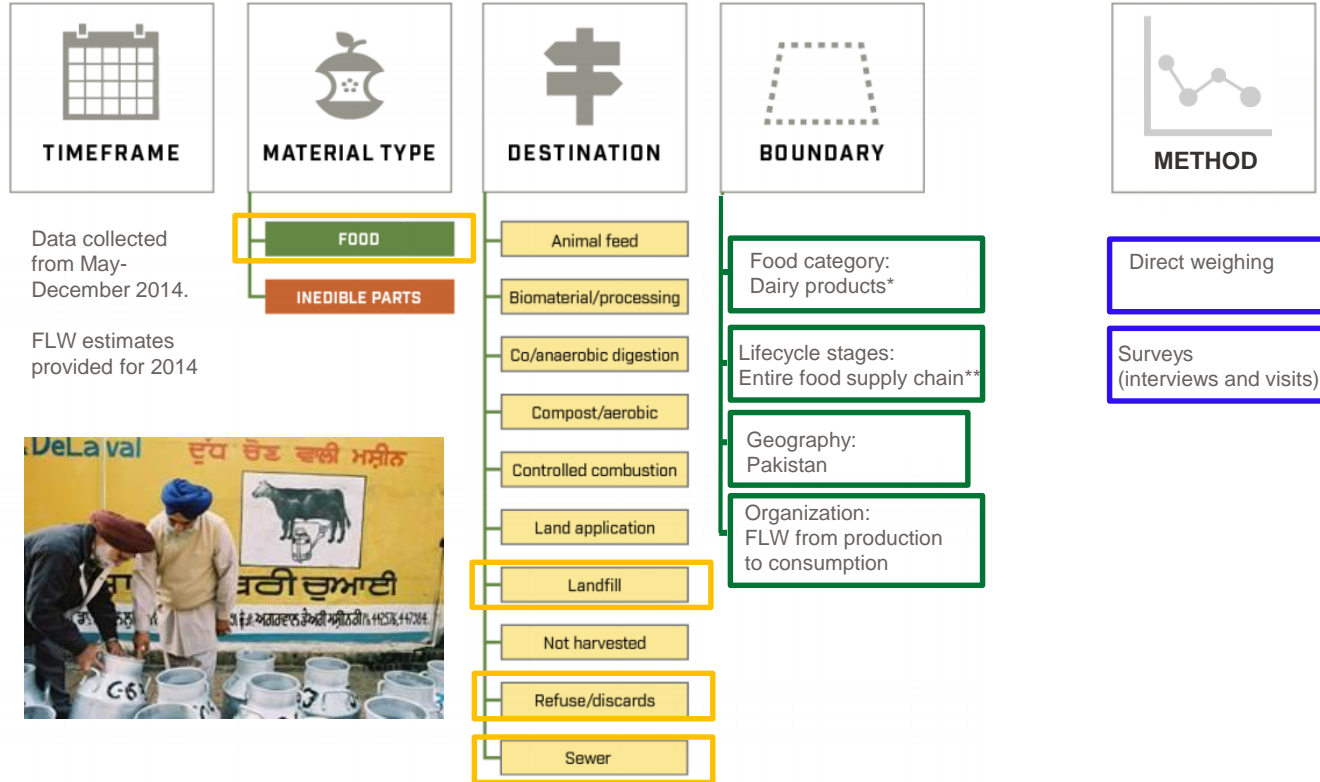
- Monitor progress against targets
- Prioritize actions to where focus our efforts first
- Share good practices and destinations found for specific types of materials



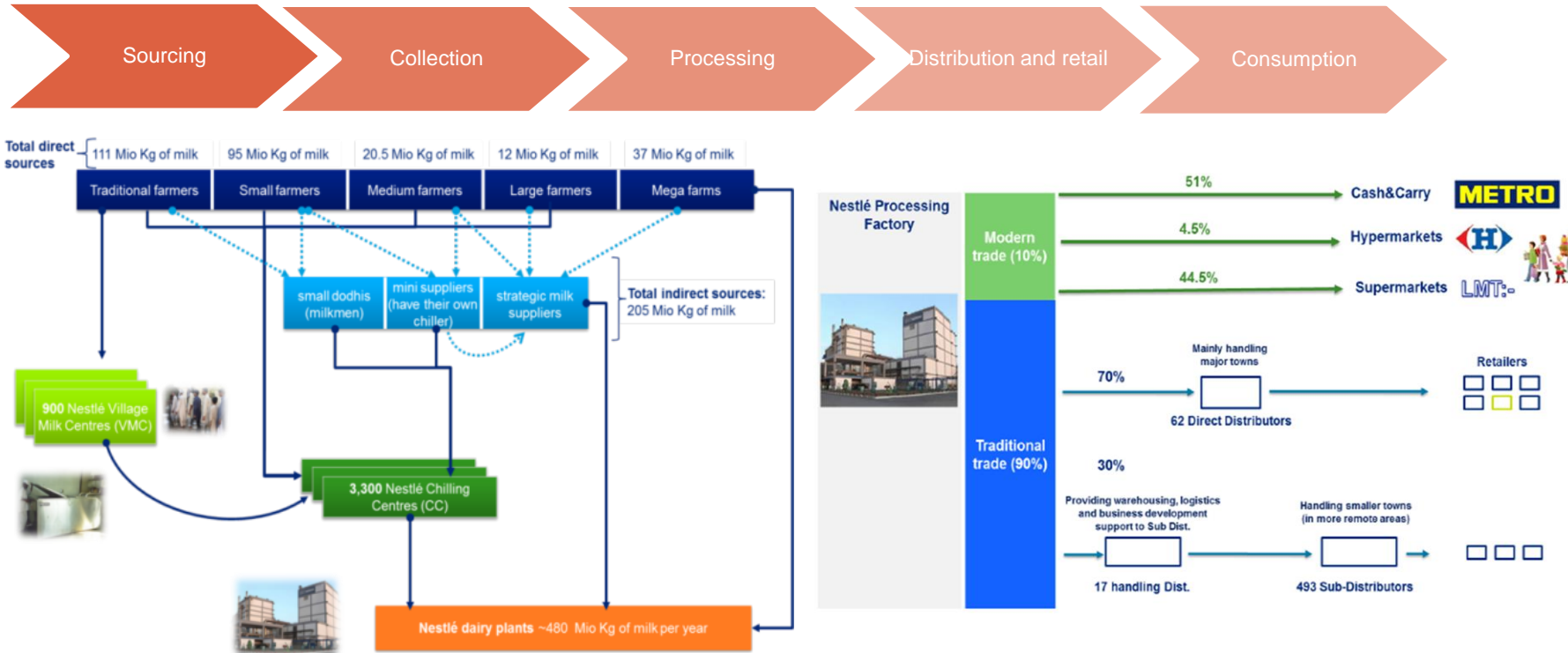
# Piloting the FLW accounting and reporting in the Pakistani milk supply chain- 2014



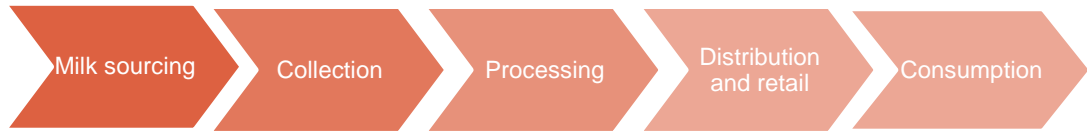
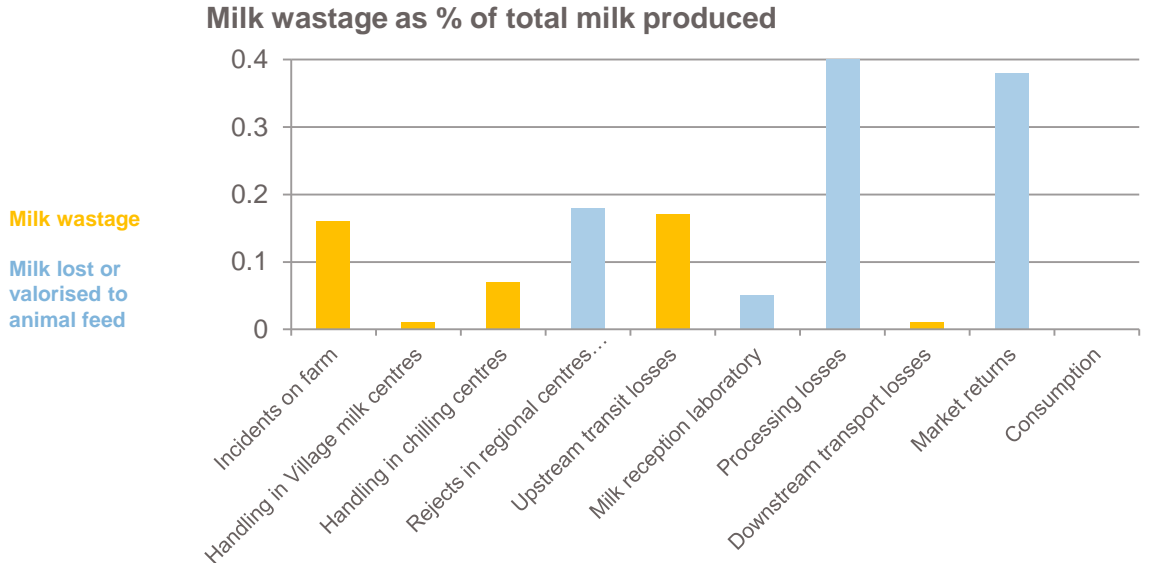
# Scoping



# Mapping the milk value chain



# Results: 1.4% is lost or wasted across the entire value chain 7'100 Tonnes/year



Estimated data collected by Bio by Deloitte for Nestlé Pakistan dairy value chain- 2014

# Methodological considerations

- Detailed mapping across the entire value chain is essential
- Define clearly the starting point of the food supply chain (scope)
- Importance of the destination of food waste
- Milk not entering the specific supply chain but used elsewhere was not considered a loss
- “Necessary” losses? Samples (for quality checks)...

# Nestlé in Society 2016 Report: Reporting on food loss and waste reduction



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## Environmental sustainability

Our goal is for our products to not only be tastier and healthier, but also better for the environment along their value chain. To help us improve our environmental performance, we are adopting a life-cycle assessment approach.

RESOURCES	PACKAGING	PRODUCTS
 Our commitment: Improve resource efficiency in our operations. <a href="#">Read more...</a>	 Our commitment: Improve the environmental performance of our packaging. <a href="#">Read more...</a>	 Our commitment: Assess and optimise the environmental impact of our products. <a href="#">Read more...</a>

[Download our new report](#)  
 Nestlé in society: Creating Shared Value and meeting our commitments  
[Summary \(pdf, 5Mb\)](#) or [Full report \(pdf 8Mb\)](#) or

CLIMATE CHANGE	NATURAL CAPITAL	INFORMATION
 Our commitment: Provide climate change leadership. <a href="#">Read more...</a>	 Our commitment: Preserve natural capital, including forests. <a href="#">Read more...</a>	 Our commitment: Provide meaningful and accurate environmental information and dialogue. <a href="#">Read more...</a>

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