

THE BUSINESS OF CHMATE CHANGE

Supply Chain Continuity Risks & How to Proactively Manage Impact

In a world where climate change can impact every part of the supply chain, it's no longer business as usual for agricultural, food and beverage companies. As a result, now is the time for your company to take action on mitigating risk so you can sustain and grow your business into the future.

The key to success will be bolstering supply chain continuity, and adapting your business strategy and operations to proactively manage ongoing risks. While adaptation will add cost, as you'll see below, failing to do so can prove far more costly.

RISK 1

A May 2016 landslide in China caused \$820 million in economic damage.1

Supply Chain Impacts Production



damage from rising flood waters, halting production and causing expensive cleanup costs.

fallen debris, impairing your ability to

Distribution

get the materials you need and/or deliver your products to customers.

Routes can be cut-off or blocked by



Landslide Risk

Pearl River Delta, China



Moderate Low

High

RISK 2

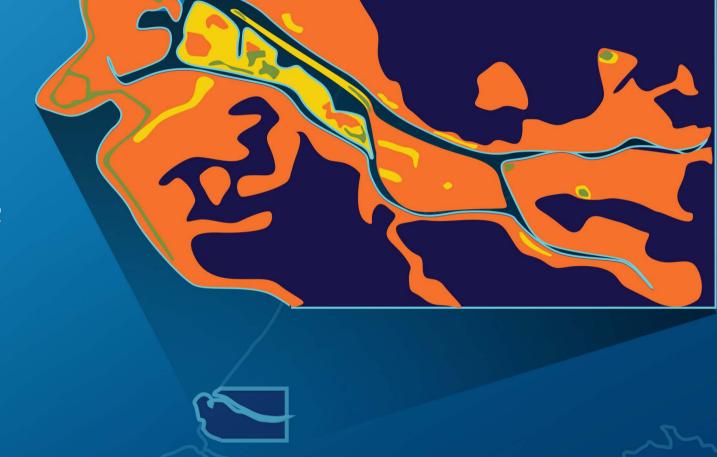
HOW TO ADAPT

Use hazard maps and intelligence tools to inventory landslide prone areas around your facility and along your distribution routes. The insights you uncover will allow you to prioritize risk and execute a strategy for improving infrastructure safeguards, moving facilities out of risky areas and establishing alternative distribution routes.

The Netherlands

could spend up to €80 billion to adapt to the increasing

risk and frequency of floods.2 Supply Chain Impacts



Floods can destroy crops, displace livestock and wash away nutrient rich topsoil.



Production Production facilities can realize serious damage from rising flood waters, halting

cleanup costs.

Raw Materials

Distribution Floods damage roads and cut off travel, preventing you from receiving essential

ingredients or getting your products to

production and causing expensive



Customer If you're unable to deliver product to

your customers.

to fill the gap.

event of a flood.

your regional customers, they could lose

market share and look for new partners





HOW TO ADAPT

Assess the flood risk level where your facilities are located, and engage experienced civil engineers to design dikes, refuge areas and artificial banks for critical equipment. These

flood controls will help you mitigate facility damage in the

RISK 3



Supply Chain Impacts **Raw Materials** Changes in seasonal weather patterns can affect the immediate supply of raw materials, as well as the long-term

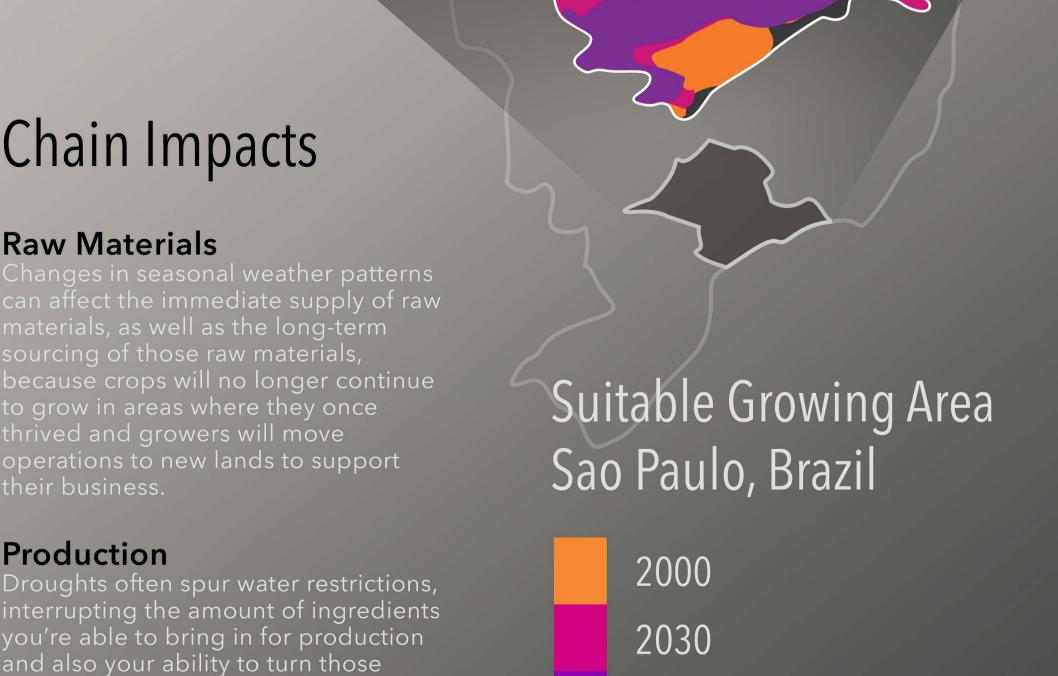
An estimated 50%



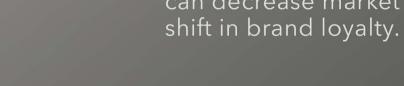
Production Droughts often spur water restrictions, interrupting the amount of ingredients

their business.

ingredients into your end product. Customer Droughts often cause commodity shortages and drive prices up, forcing companies to choose between holding prices steady and eroding their margins, or raising prices for consumers, which can decrease market share or spur a



2050



Identify the drought-prone areas where your suppliers operate, **HOW TO ADAPT** and look for new opportunities to expand your supplier network. In addition, invest in a back-up water supply and aim

to reduce consumption as much as possible through innovation. If you're unsure where to start, partner with an experienced environmental consulting firm with the tools to identify risks, unearth new opportunities and prioritize actions.

You can't prevent landslides, floods or droughts from occurring, but you can take steps to mitigate the negative impacts they could have on your business. To

calculate the level of risk and pinpoint areas that are the most vulnerable. Don't wait for disaster to strike. Take action now to determine your level of risk



help identify and reduce these risks, Antea Group has wide-ranging technical

capabilities, and has developed a predictive risk assessment tool that can

and put a strategy in place to avoid costly business consequences.

Sources 1. https://www.statista.com/statistics/267837/economic-damage-caused-by-mudslides/

2. http://www.climatechangesspatialplanning.nl/media/default.aspx/emma/org/10354094/34-44+Adaptation+cost+in+the+Netherlands +-+Climate+Change+and+flood+risk+management.pdf 3. Antea Group expert opinion based on IPCC data (2016)

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