

A Case Study



KleanNara Expands LUCIDi4 Solution to Paper Division

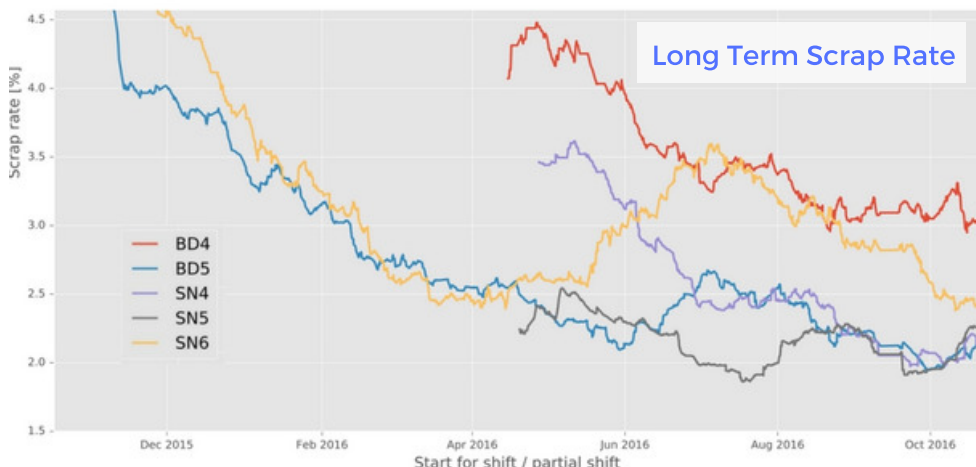
Diaper Manufacturer Achieves 40% Scrap Reduction with LUCIDi4 Real Time, Smart Data

Objectives

KleanNara is a South Korean paper products company that has been in business for more than 50 years. It manufactures a wide range of paper products, from household and hygiene items to industrial and food packing paper products.

An industry leader, KleanNara is focused on achieving Industry 4.0 manufacturing processes across its

facilities. In November 2015 it implemented the LUCIDi4 real time data system to identify the root causes of scrap and machine stoppages. The initial installation was on a limited number of production lines as KleanNara's management wanted to evaluate the solution's ease of implementation and its impact on scrap reduction, quality improvement and cost savings.



A Synopsis

The Company

KleanNara Co Ltd

The Product

Hygiene & Paperboard Products

The Challenge

Manual data collection hampering cost improvements

The Result

40% Scrap Reduction saves US\$310,000 per Line per Year on Pad Division lines

How it was Achieved

Real time data available to frontline staff allows them to make quick decisions on the operation and maintenance of the production lines



Process

KleanNara began by implementing LUCIDi4's solution on two product lines. According to KleanNara COO Rita Choi, "the data analysis knowledge provided by LUCIDi4 allowed KleanNara to reduce waste on both lines and achieve great improvements in manufacturing."

Though KleanNara was primarily focused on achieving manufacturing improvements and cost savings, the real time data and manufacturing guidance provided by LUCIDi4 also had unexpected benefits. KleanNara Chairman B.M. Choi says, "the motivation provided to employees by LUCIDi4 President Kevin Snook is where the company has seen the most improvement, not only with manufacturing managers but also with operators on site.

Mr. Snook directly communicated with them and helped them to think of ideas that enable them to make improvements spontaneously."

In addition, LUCIDi4 real time data highlights and emphasizes the importance of cleaning, maintenance and process control of a production line and this has benefited process improvement. Based on these achievement KleanNara rolled out LUCIDi4's CLARITYi4 solution to all diaper and feminine hygiene lines.

In just 9 months KleanNara reduced scrap by 40% and it continues to see improvement. The system paid for itself in just 2.5 months and the return on investment has been 525%.

"We are broadening our consulting spectrum from Pads division to Paper and Tissue manufacturing. With LUCIDi4's help, KleanNara will build an automation factory based on strong data."

**- B. M. Choi
Chairman, KleanNara**

KleanNara 

Results

The customized solution LUCIDi4 provided has helped KleanNara achieve significant scrap reduction improvements and as a result the company has requested further consulting services from LUCIDi4 for its paper division.

"Based on these achievements, KleanNara decided to request

further consulting from LUCIDi4," said COO Rita Choi. "Though paper division is a new area for them I believe LUCIDi4's deep understanding and knowledge of data systems will be an asset when consulting with our paper division. Mr Snook has outstanding knowledge in identifying problems and giving solutions."

LUCIDi4
Smart Decisions, Smart Factories

Unlock
Your
Industry 4.0
Potential

LUCIDi4.com