

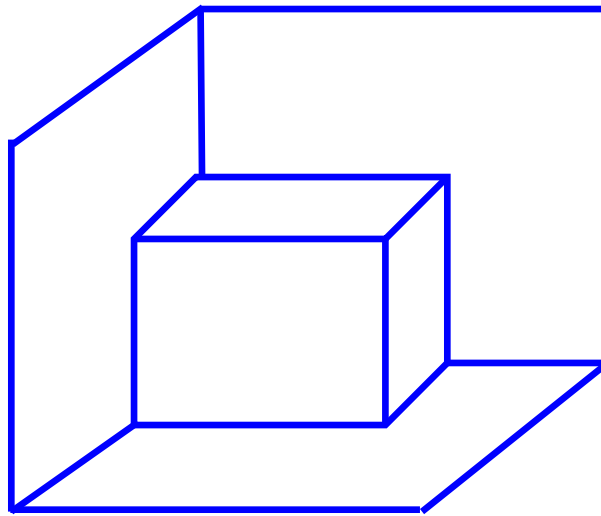
From Sorting to Inspection

Need to speak with reliable data!

Need to speak with reliable data!

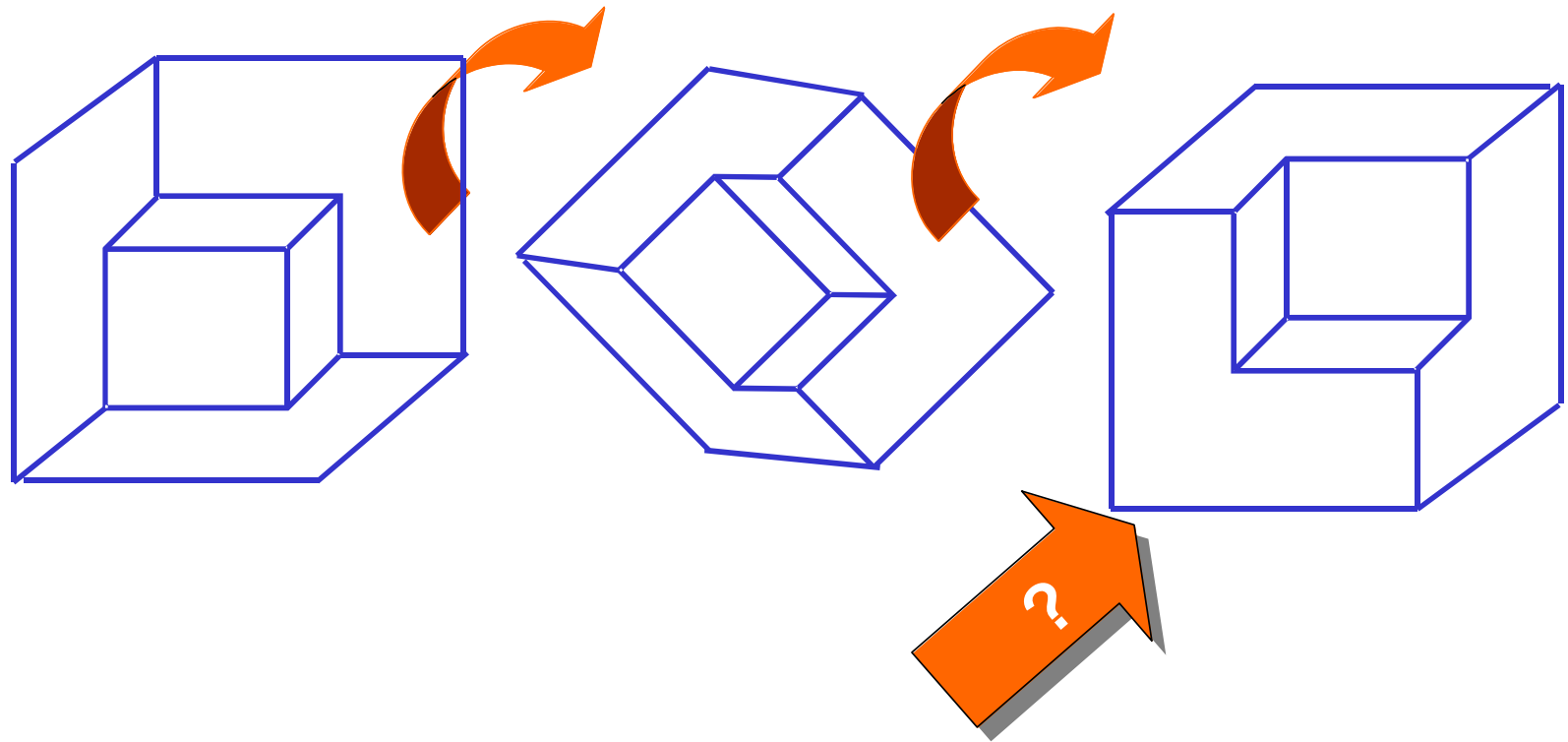
A simple example

Need to speak with reliable data! - A simple example



A box in a corner

Need to speak with reliable data! - A simple example

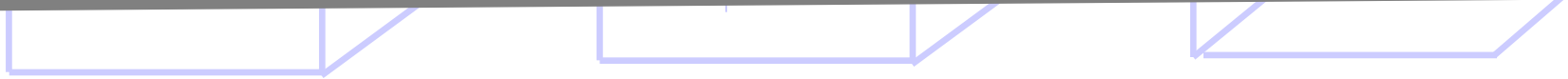


What's happen if we see from another perspective?

Need to speak with reliable data! - A simple example

Imagine what it could be in real life, in a complex process!

“Beware of perception , of interpretation “



To fully master a complex process

Need for real and reliable data!

Same drawing , three interpretations !!!

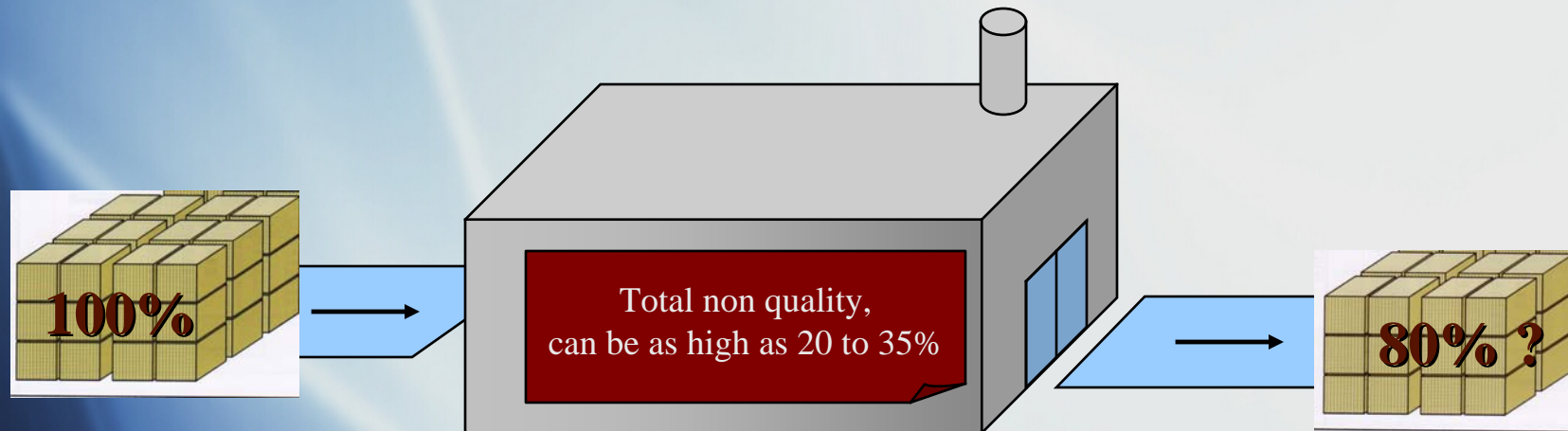
“the reality”

From Sorting to Inspection

Need to speak with reliable data!



Mastering the drying process - A real industry challenge



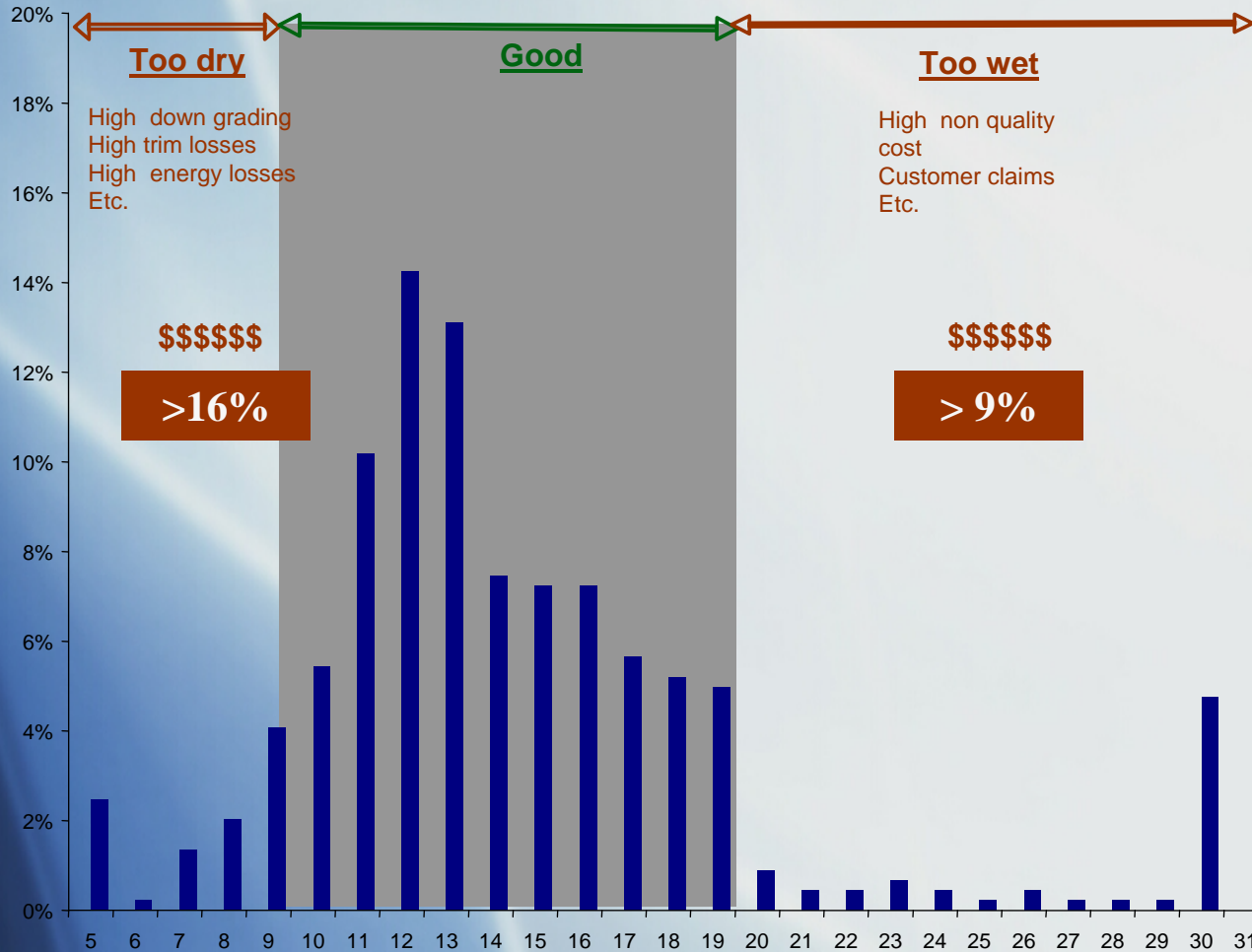
If I could know what's really coming *in*.



If I could really know what's really coming *out*.

Need to speak with reliable data!

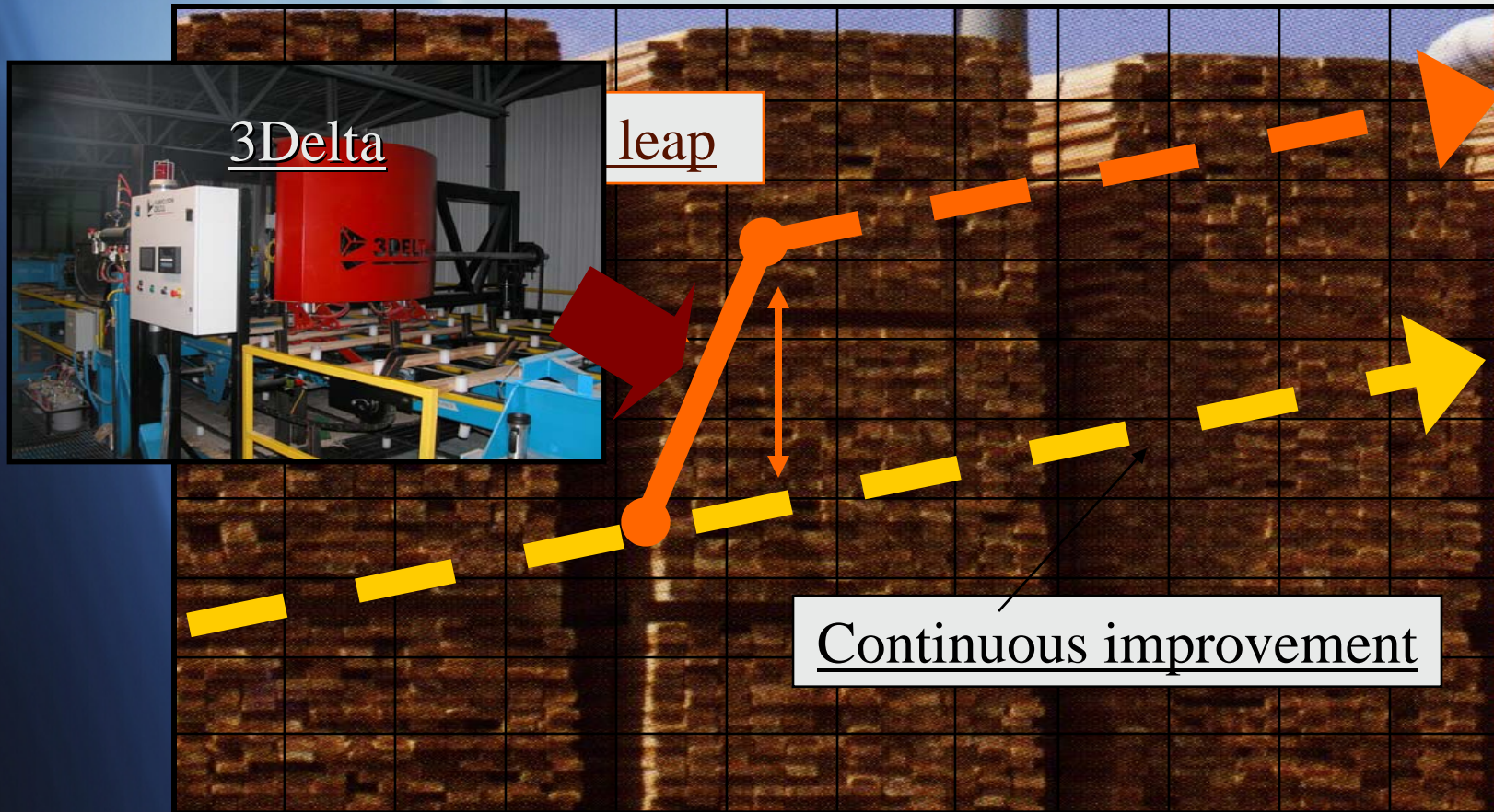
Overall performance of the industry according to



Important losses: Non-quality, Cost of drying, Downgrading. Etc.



Need for a new approach



Need for a breakthrough!

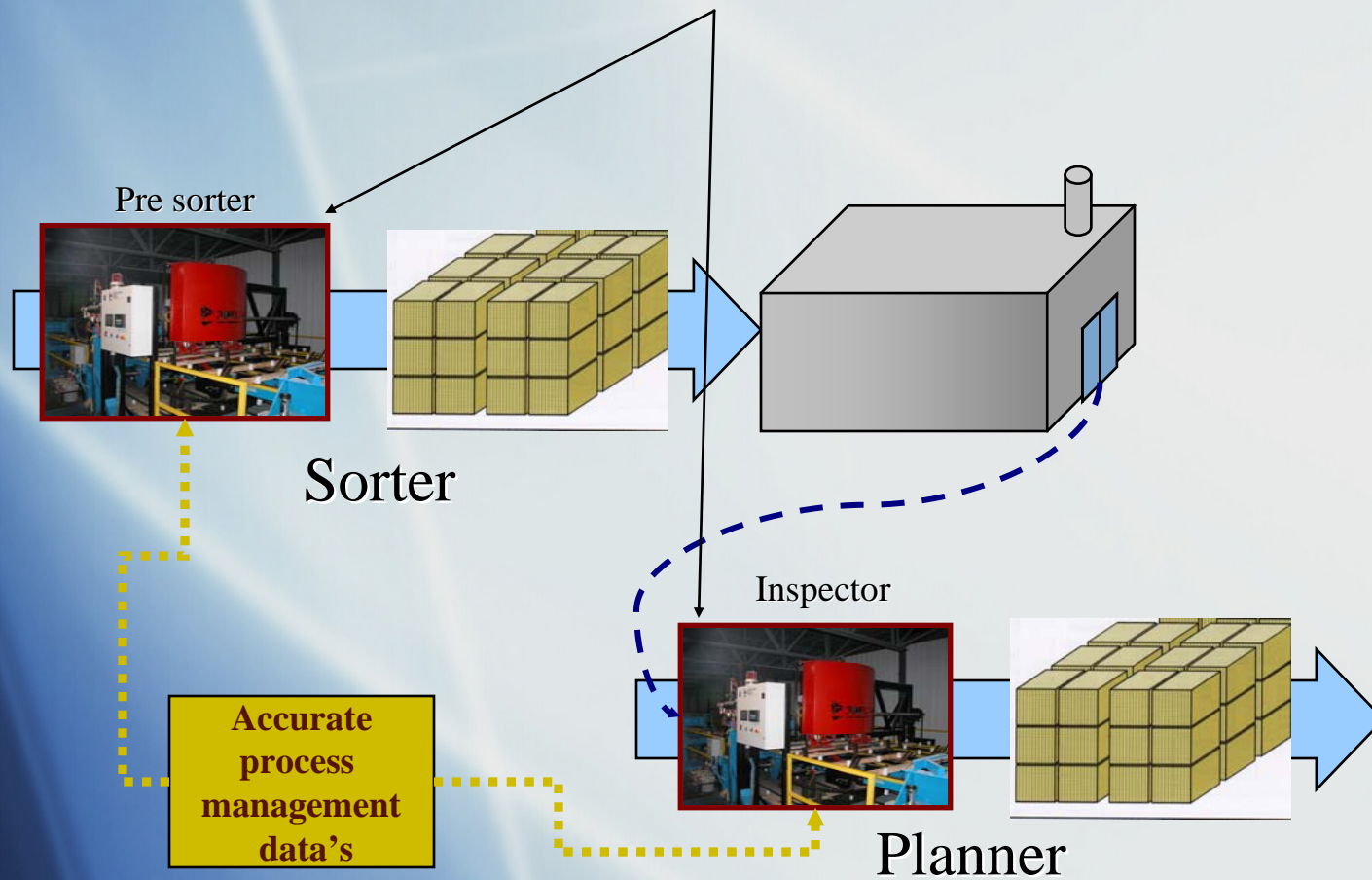


The 3Delta system





The 3Delta system



Accurate data for the real control of the drying process



The 3Delta system



- **8 years** of development,
- **A new approach:**
 - definition of the “**Dryability profile**” of each piece,
 - **No segregation** of species,

- Process “**Input and output**” accurate data's,
- Installed **in the line**, up to **250 pieces per minute**.



A proven answer in mastering the drying process

The 3Delta system



- **Multi points readings** at 24" and 60" from one end,
- **Automatic correction** to the **SPF-COFI** table or other,
- **Constant verification** of **good communication** with the central system,
- **Automatic self calibration**,

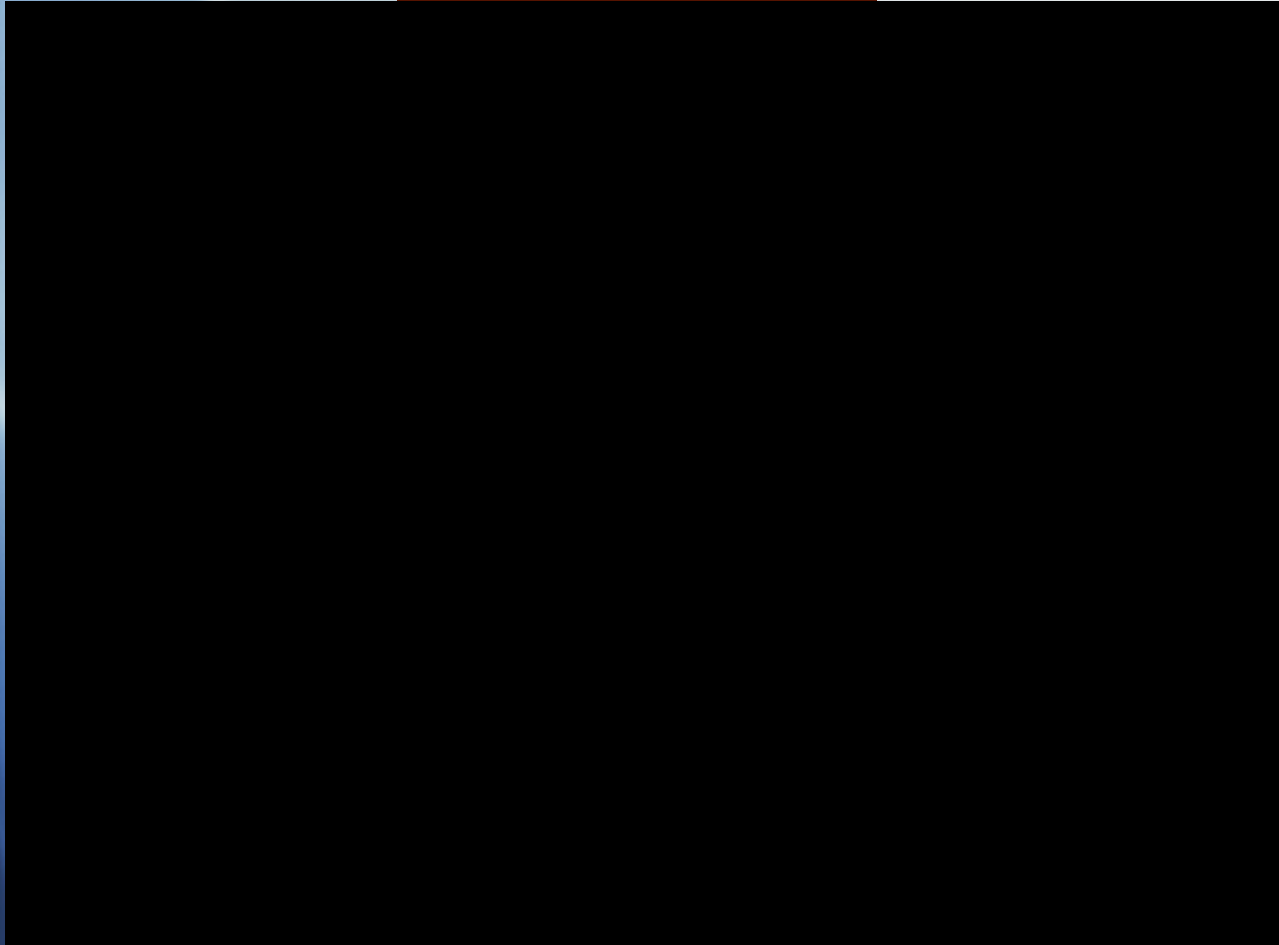


- More than **one year of experience** on site,
- Performance **confirmed** by **Forintek**,

A proven answer in mastering the drying process

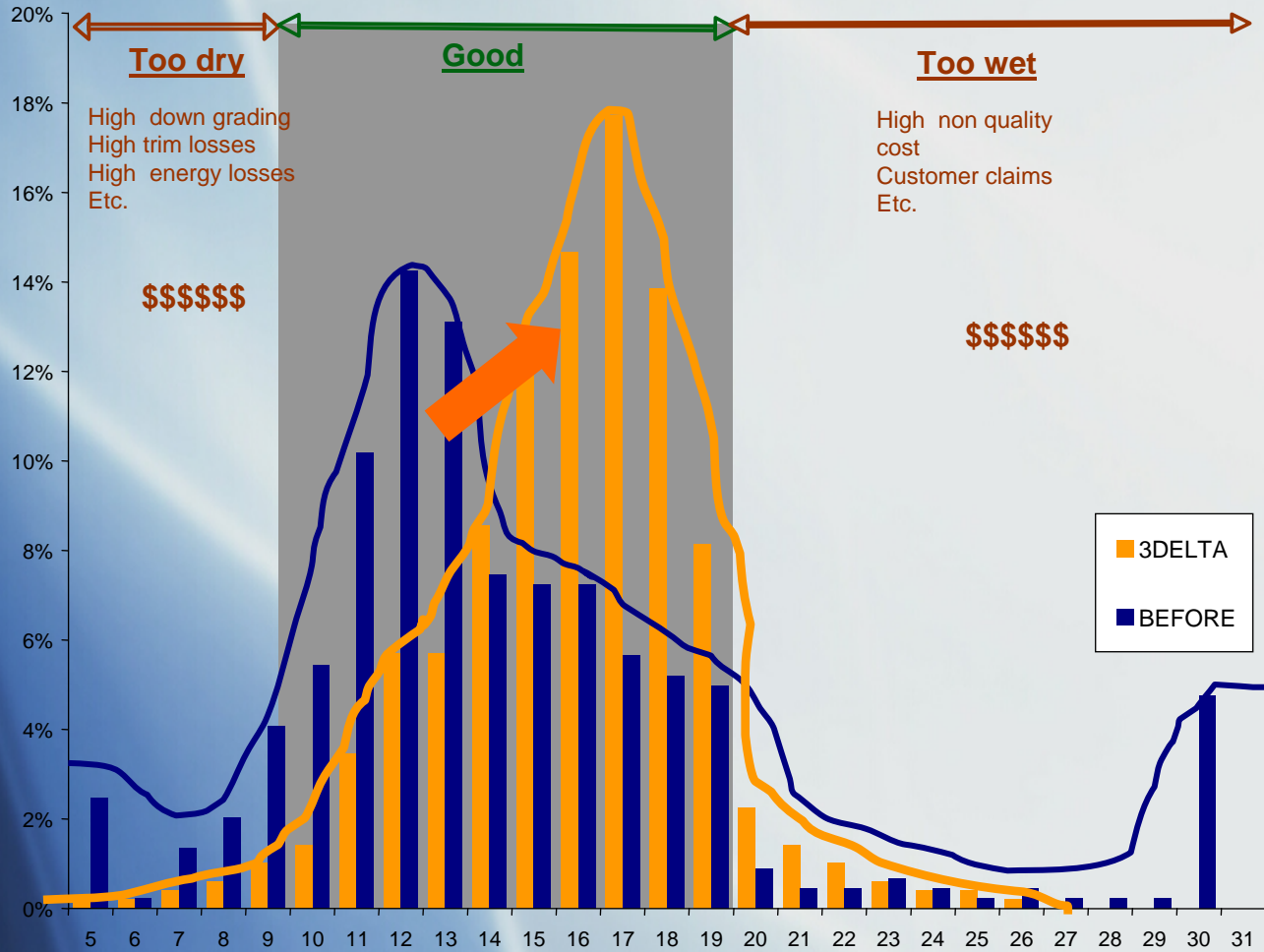


The 3Delta system



Proven on site reliability

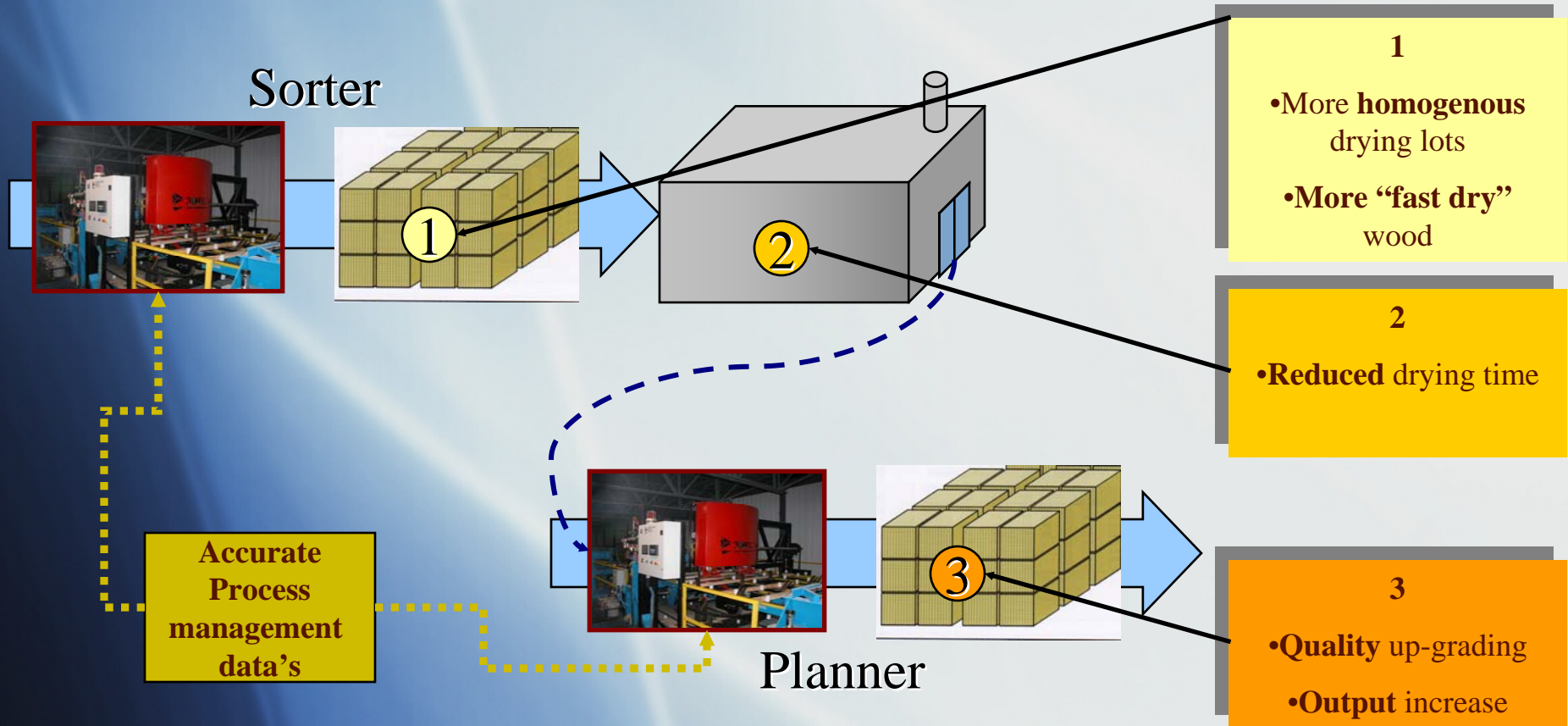
The 3Delta system



A real improvement in mastering the drying process



The 3Delta system



Accurate data's, independent from the mix, the period of the year, etc.

What differentiates the 3Delta Systems from other technologies ?



- **A new approach;**
 - Definition of the “**Dryability profile**” of each piece”.
 - **No need to differentiate** species
- **Real measures** for each pieces in **multiple locations**.
 - **Accurate and reliable** data's
(No interpretation, no extrapolation)
 - Real time **input-output** data management
(At Sorter and Planner)
 - A **real and reliable** process **management tool**



Let's speak with data!

3Delta confirmed performance



3Delta performance audited by Forintek

December 2006. (Forintek test report #690-5642)



	Without 3Delta	With 3Delta
Fast drying volume	25%	38%
Average humidity	14,2%	13,3%
Standard deviation	5,14	4,31%

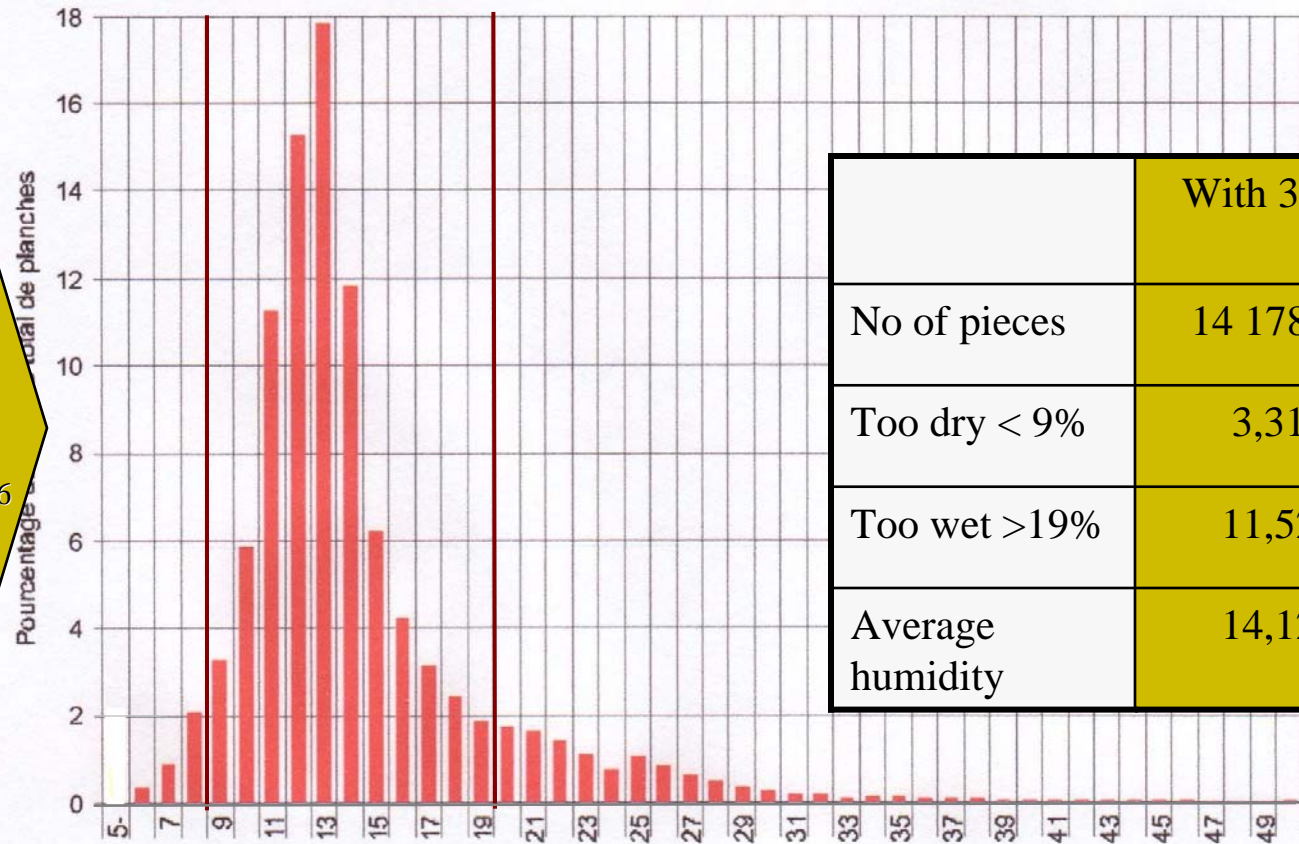
Confirmed potential benefits of >15%



Experience in GDS Matane ,Canada.

One year
Experience

Oct. 2005 to Oct 2006



	With 3Delta
No of pieces	14 178 618
Too dry < 9%	3,31%
Too wet >19%	11,52%
Average humidity	14,12%

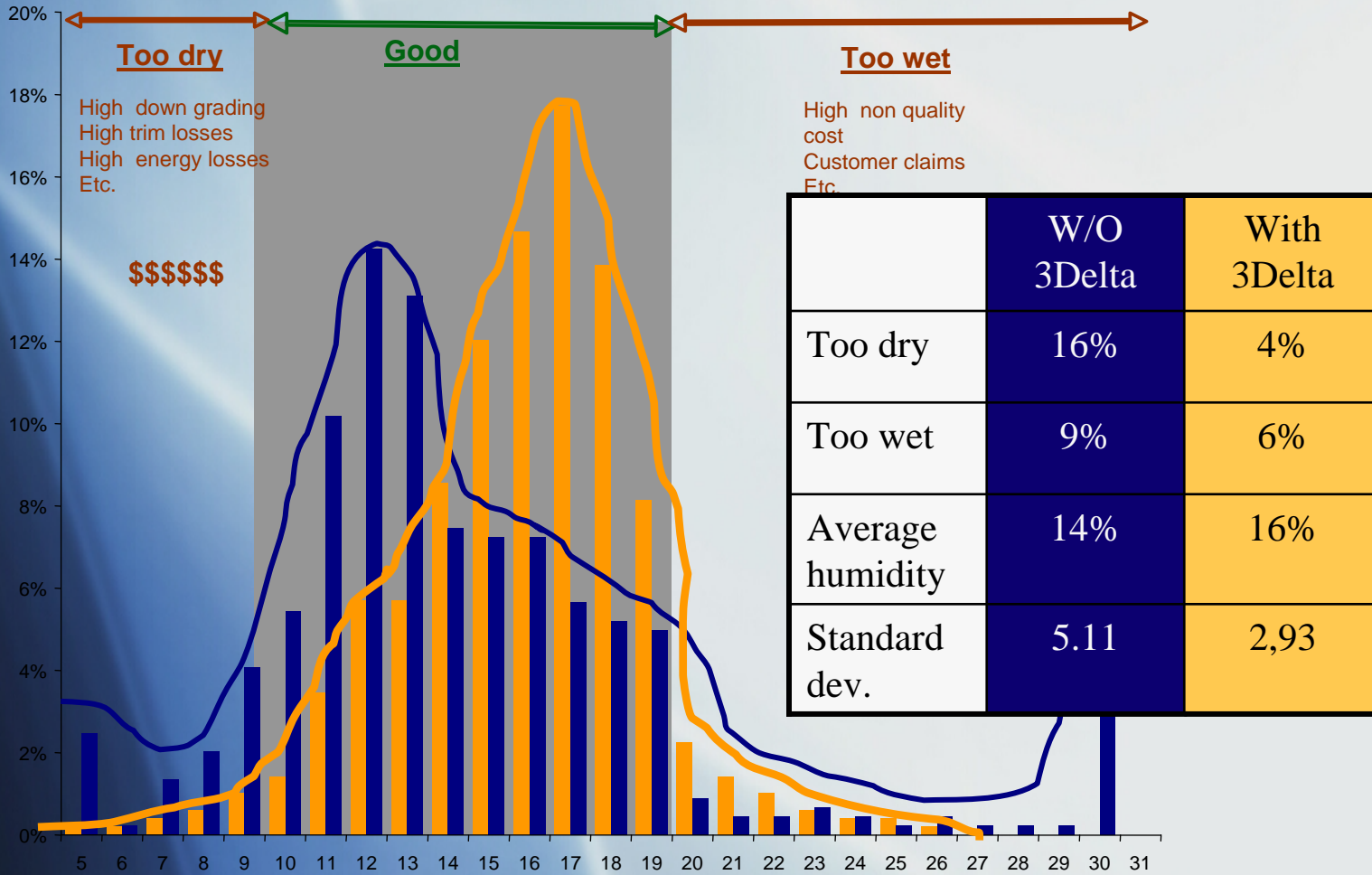
Estimated savings of more than 1,2M\$ per year



The benefits for your mill

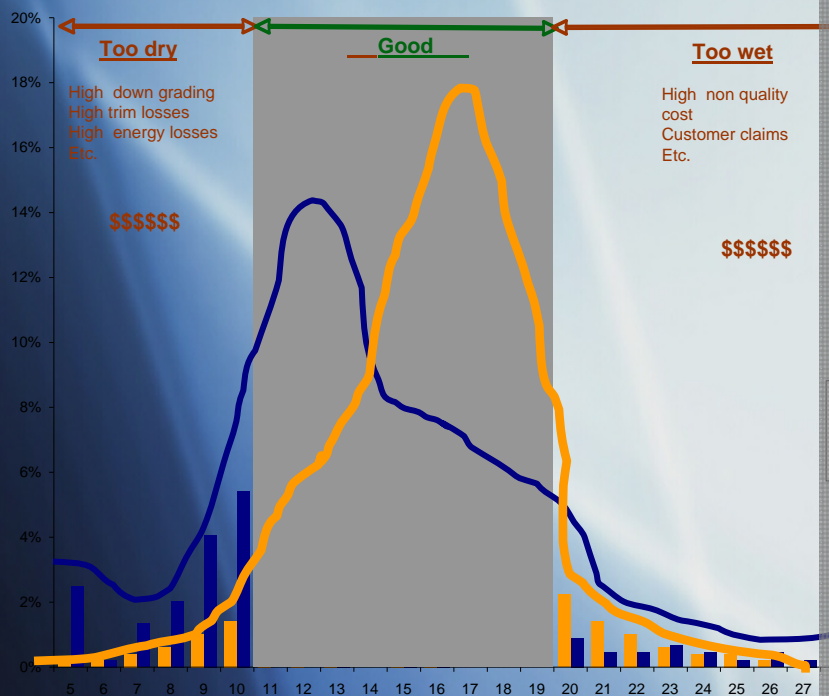


The potential benefits for your mill (typical)



The real mastering of the drying process

The potential benefits for your mill (typical)



- Important reduction of “too dry” (up to -75)
- Important reduction of “too wet” (up to -33)
- Quality upgrading
- Energy savings (- 10%)
- Reduction of manpower at sorting
- Increased output (+10% to 30%)
- Postponement of heavy investment (kiln)

Real mastering of the drying process - Important savings



The potential benefits for your mill (typical)

Savings	<p style="text-align: center;">US\$7,00 to 15,00 / Mbf</p> <p>Ex: for a 100000Mbf sawmill <i><u>\$700,000 to 1,5 M\$ / year</u></i></p>
Energy	<p style="text-align: center;"><u>Reduction</u> by more than 10%</p>
Sawmill output	<p style="text-align: center;"><u>Increase</u> by more than 10%</p>
ROI	<p style="text-align: center;"><u>Less</u> than 6 months</p>

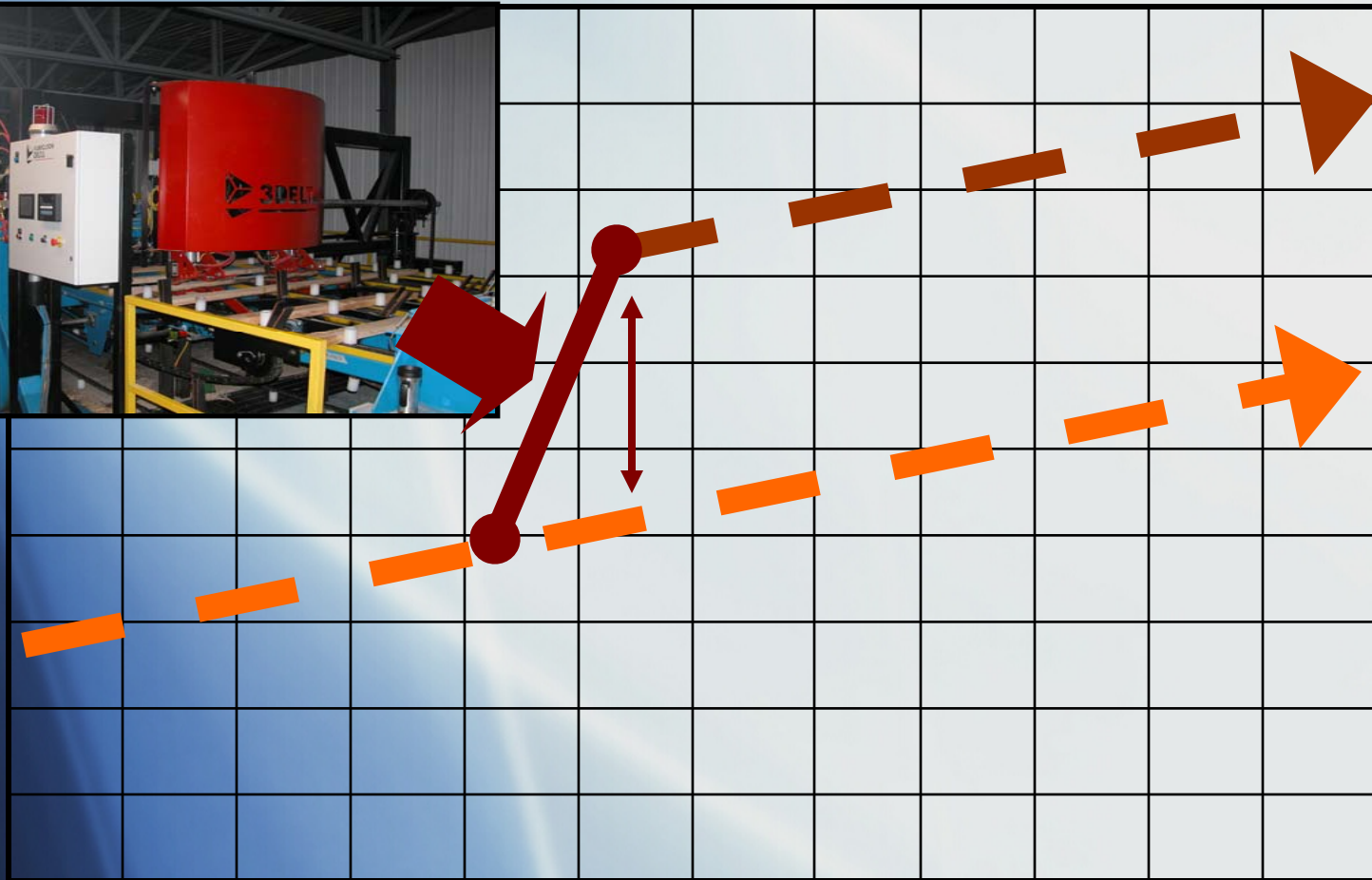
Rapid return and benefits



Conclusion



Let's master your drying process



3Delta : a real breakthrough for the industry



Steps to your 3Delta project

Steps to *your* 3Delta project



1. Definition of your **“Sawmill profile”**.
(You complete a sawmill profile data sheet)
2. **We estimate your potential benefits and ROI.**
3. **We agree on benefits data sheet.**
(your project justification data's)
4. **Site test validation can be done on demand**
(with **mobile unit**: commercial conditions to be discussed)



5. **Turn key installation, delivery time : 3 months**



Discussion period

Thank you