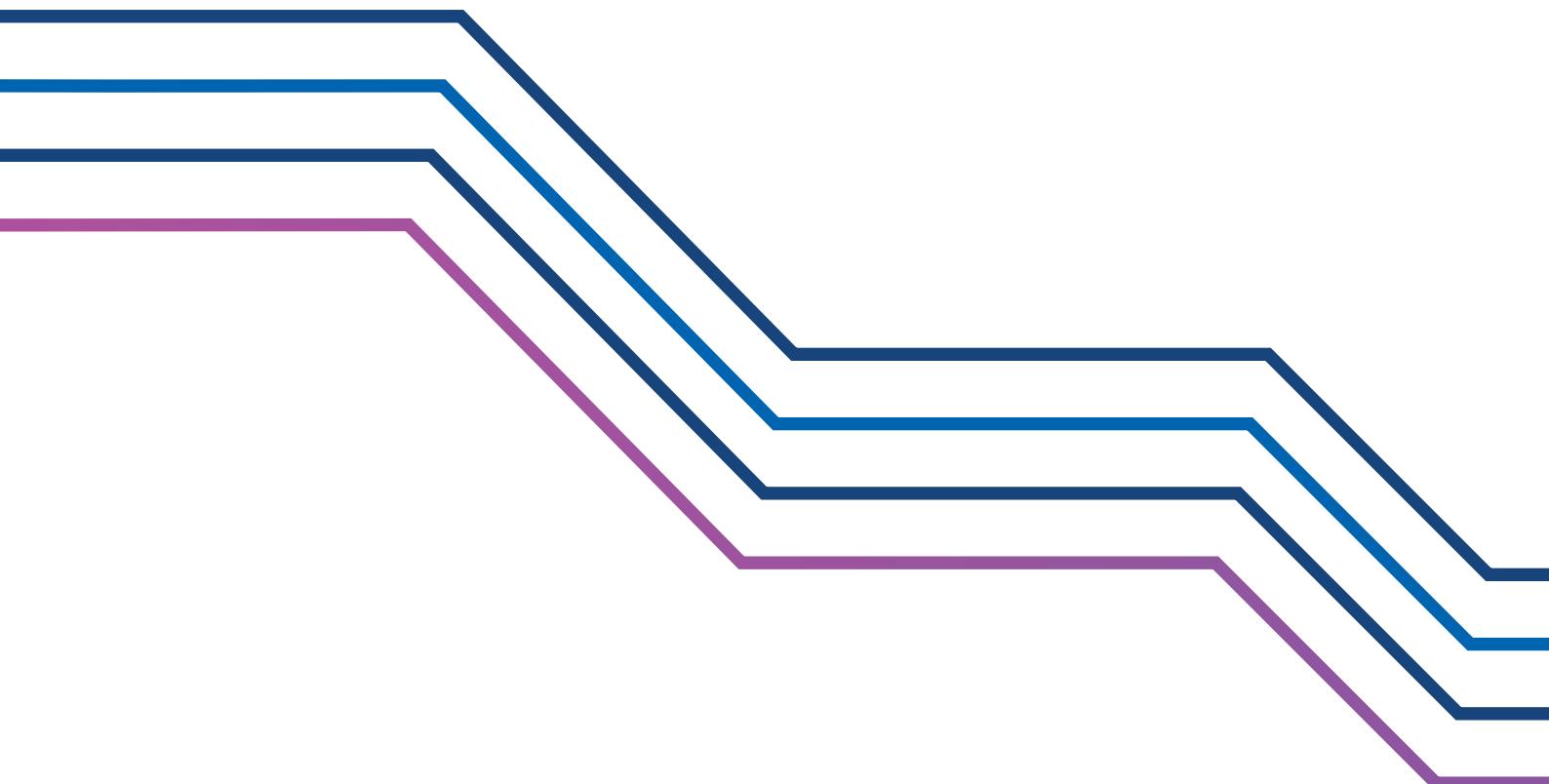




tilia phoenix

Rethink planning and imposition



A BRIEF INTRODUCTION TO TILIA LABS

Introducing: Industry's First Artificial Intelligent Preproduction Software

Dream a bit and think about things that excite you. It's what makes a good company with a lot of passion.

As **Tilia Labs** grows into a global company, we remain committed to our humble beginnings -- hacking away in Tokyo cafes and dreaming of exciting new ways to solve age-old problems. We are an agile startup company dedicated to bringing the next generation of computer intelligence to the printing and packaging industry. Our success we owe to our passionate customers who not only drive our roadmap but fearlessly adapt to a new age of manufacturing.

Tilia Phoenix is the industry's first and only automated, AI-driven pre-production software for packaging, labels, commercial, and wide format. Something like imposition in reverse, tilia Phoenix optimizes each layout across all jobs, presses, stock sizes, and finishing methods. The artificial intelligence drives to the results that reduce overall cost by discovering combinations that humans could never consider.

We look forward to bringing this exciting innovation to your business.

Sincerely,



Sagen de Jonge
CEO & Co-founder of Tilia Labs



Scott More
CTO & Co-founder of Tilia Labs

AI-DRIVEN PLANNING & IMPOSITION

01

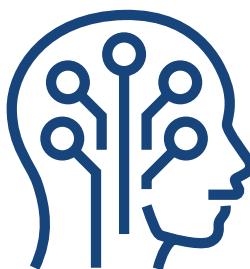


Ditch Human Planning

Don't get us wrong, we like humans. They are curious, funny, and generally make life worth living.

But when it comes to work they can use some help. Humans get sick. They get sleepy. And often, they take the path of least resistance. When it comes to efficient tasks, computers are the right choice. Especially when those tasks mean choosing the best from many combinations or possibilities. Computers win.

02



Train your A.I.

That's where tilia Phoenix comes in. Tilia Phoenix's revolutionary Artificial Intelligent planning algorithm, Imposition AI, learns like a human...well...more like a superhuman.

Start by teaching the AI about your production environment. Teach it about your presses, your finishing equipment, your stocks, and your costs. Make it as smart as possible so it can find the best results.

03



Increase Your Margins

Once you've trained your new AI, you are ready to start reaping the rewards!

Imposition AI will evaluate all jobs that are ready for production and look for the most cost-effective presses, stock sizes, and finishing methods to produce the most optimal imposition. Want to know if a job will fit better on your full size or half size press? Run both simulations and get an immediate response. Never wait on another coffee break again.



SMARTER MARKS

Tilia Phoenix boasts the widest and most dynamic production marks in the industry.

- 16 barcode types
- Color bars, side guides, text, and more
- Variable braille for ADA signs and packaging
- Scriptable marks for custom mark requirements

SIMPLE INTERFACE

Software should be easy to learn and easy to use. We have taken a fresh new approach to UX by designing an interface that is simple and approachable.

- Cross platform
- Drag-and-drop user interface
- Intuitive workflow is easy-to-learn

ONE TOOL ALL SEGMENTS

Tilia Phoenix is your multi-market solution for all your planning and imposition needs.

- Commercial flat, folded, and book work
- Boxes, cartons, and displays
- Tags & labels
- Wide format
- Digital & conventional

OUT-OF-THE-BOX INTEGRATION

Tilia Phoenix is designed with Day-1 integration in mind. Data-drive Phoenix out-of-the-box with CSV files from any order management system.

- CSV order import from any IT system
- Open REST API
- Scriptable Hotfolder Automation
- Enfocus Switch Configurator

INTELLIGENT PLANNING RULES

With a nesting and imposition engine built from the ground up, tilia Phoenix plan rules can be infinitely extended. Plan based on:

- Due Dates
- Customers
- ZIP Codes
- Colors
- Sizes
- Any custom data fields

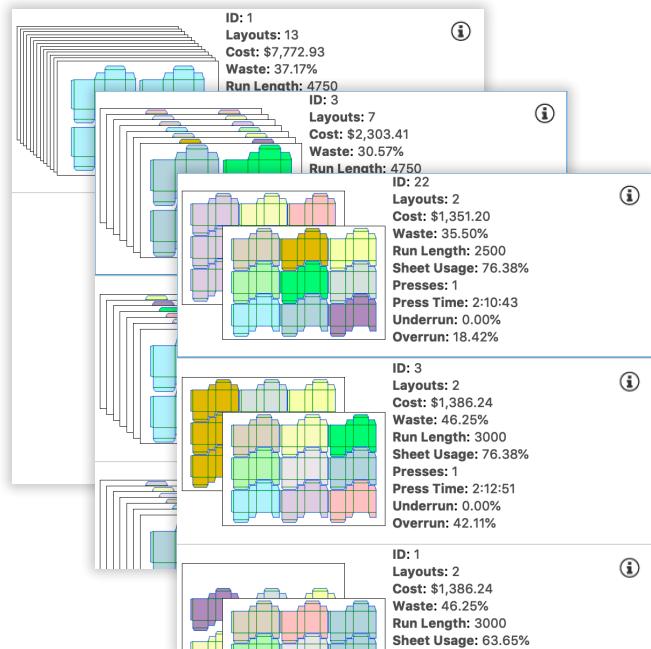
CAD-BASED PLANNING & IMPOSITION

Imposition Tools Built for Production Planning

Tilia Phoenix is the premiere choice in CAD-based planning and imposition. Powerful tools are designed specifically for packaging convertors who need to quickly populate existing dies or generate new ones.

Drag-and-drop interface and Autosnap technology automatically analyses the shape of an incoming design and snaps it into correct orientation on the die.

Imposition AI scours your die database and automatically identifies if you have a matching die. Phoenix will calculate the best way to populate based on quantities and cost. No other tool has the power to increase productivity and save cost.



DAVE SAYS...

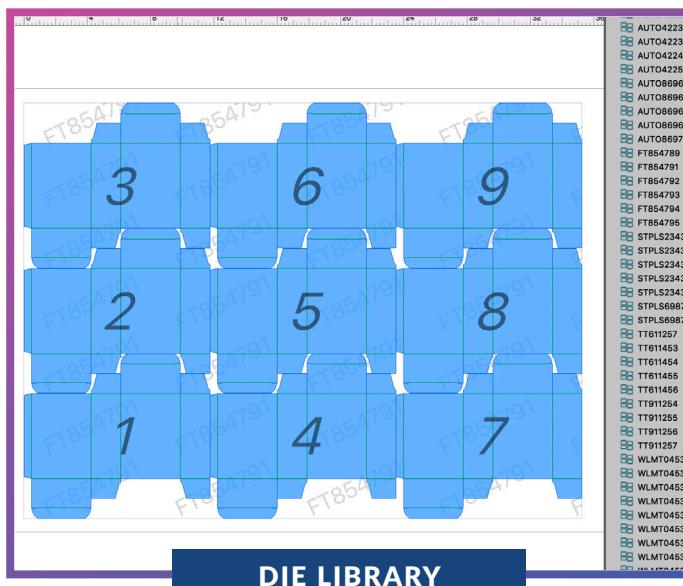
"I have been creating press combos for twenty years and Phoenix is unlike any other software I have ever used. Its simple interface, speed and revision capabilities are excellent."

Dave Tascarella

Vice President of Operations at DWS Printing

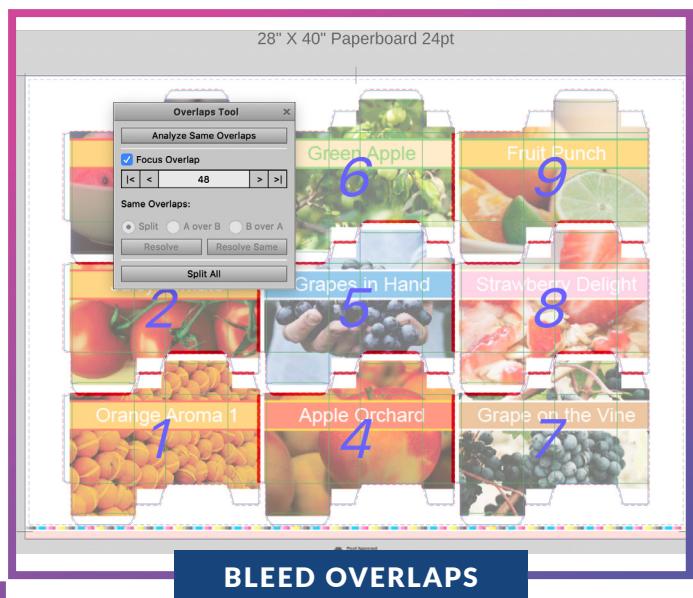
Folding Cartons Simplified

- Auto-populate die cavities based on quantities
- Automatically identify and resolve bleed overlaps
- Intelligent bleed masking based on CAD shape
- Generate optimal sheet layouts based on cost
- Data-driven marks for automated imposition
- Simple CSV import to streamline redundant data entry



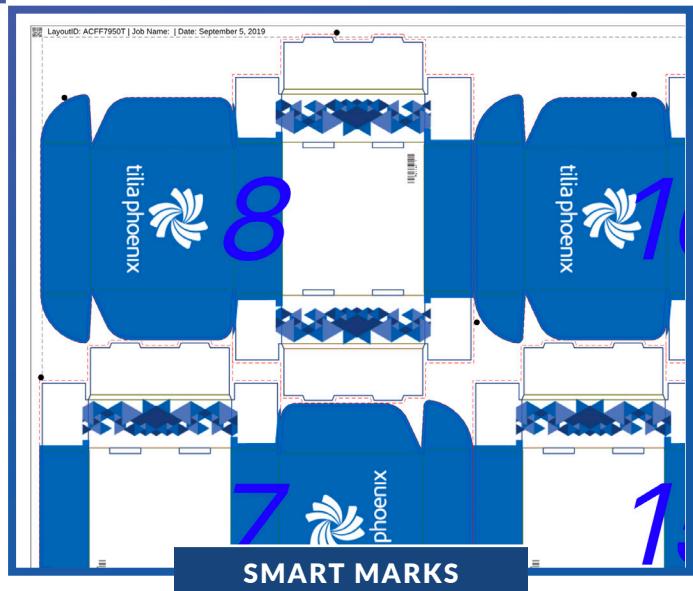
Embrace Digital Manufacturing

- Evaluate digital vs conventional production processes
- Estimate digital production costs
- Intelligently auto-snap graphics to existing dies
- Automatically add all production marks
- Export print-ready Adobe PDF and CAD files



World's Smartest Die Library

- Import, inventory, and search one-up and multi-out die files
- Advanced shape-detection intelligently finds matching multi-out dies
- Ability to convert PDF dielines to CAD lines
- Support for industry-standard file CAD file types



WIDE FORMAT NESTING & LAYOUT

Reduce Production Cost

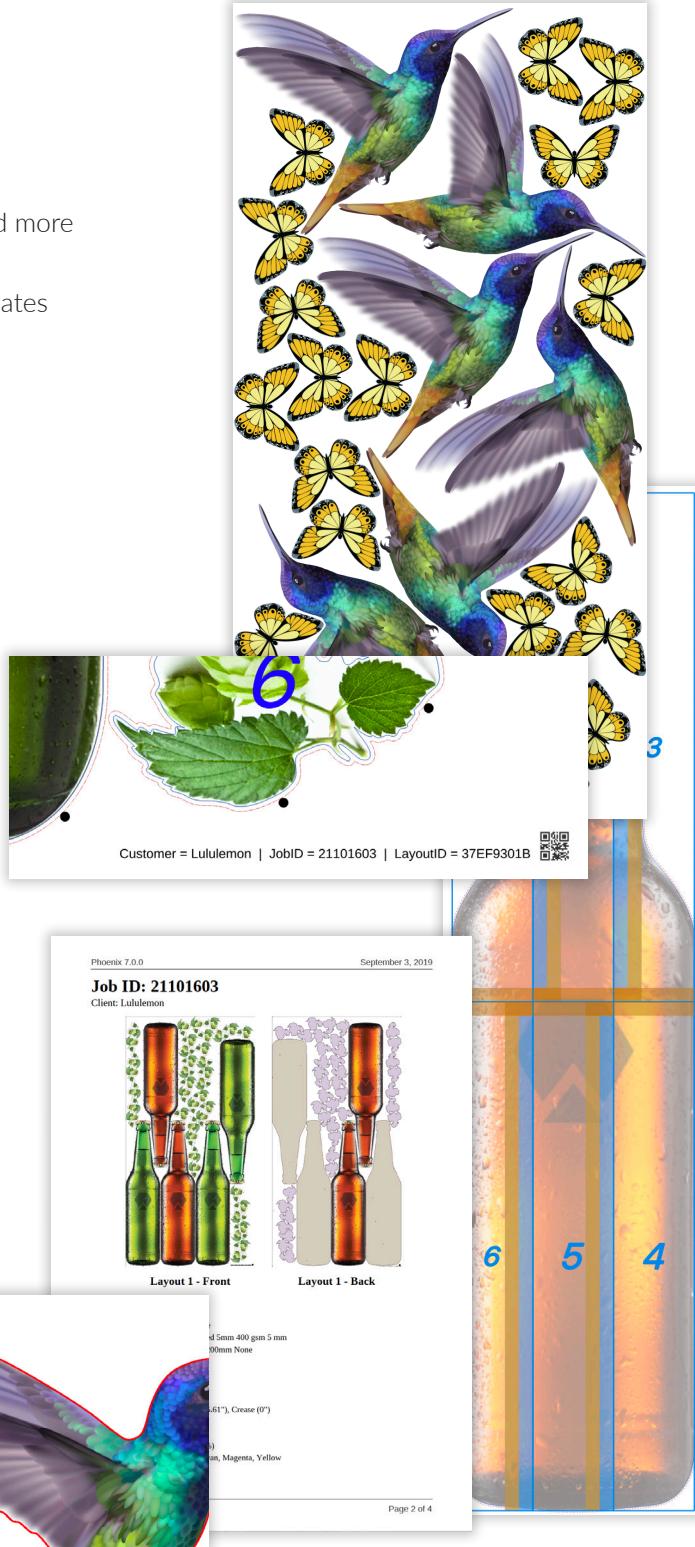
- Industry's most powerful true-shape nesting
- Gang jobs by substrate, priority, due date, customer, and more
- Press-specific costing, run times, and material usage
- Integration with cutting devices for exact cut time estimates

Streamline Print-to-Cut

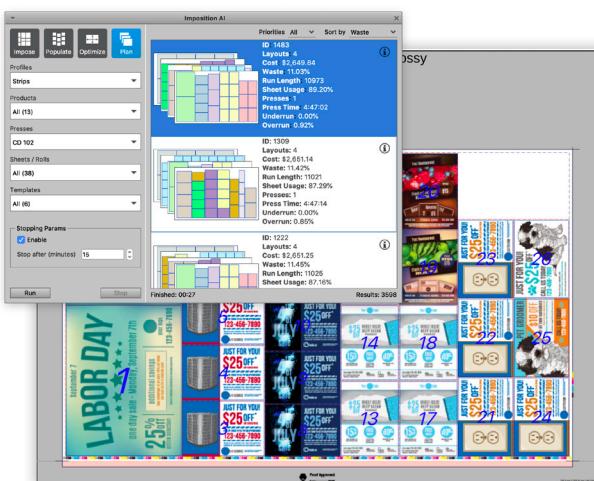
- Easy-to-use production marks
- Configure barcodes for tables, plotters, or scanners
- Automatic cut path generation
- Fast and simple tiling
- Production templates for die cut work
- Support for front-to-back printing
- Output production reports

Connect Everything

- PDF, CFF2, DXF, and ZCC outputs
- Out-of-the-box CSV integration with any IT system
- Support for hotfolder workflows
- Fully open and documented REST API
- Integrated Enfocus Switch configurator



COMMERCIAL GANGING & BOOKWORK

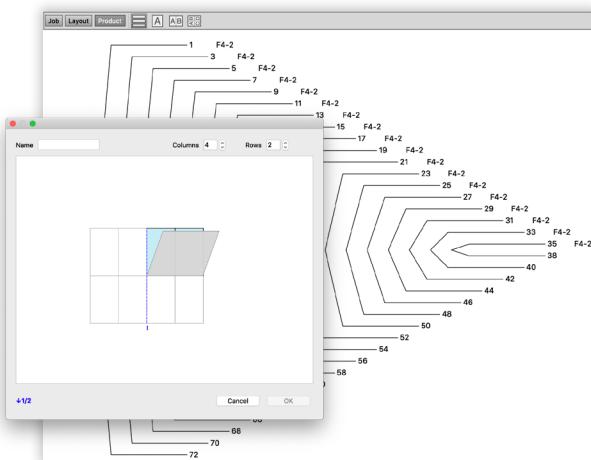
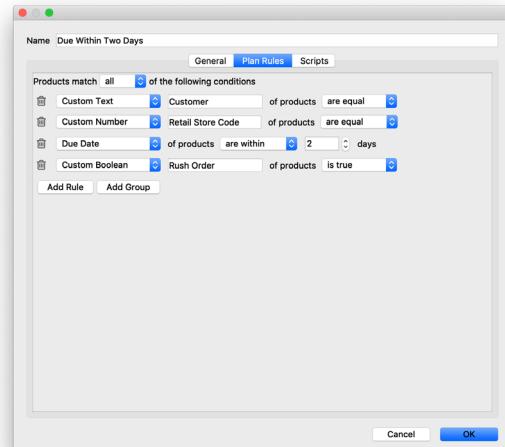


Quote Faster, Plan Smarter

- Import one or many jobs via CSV or PDF
- Quickly estimate jobs based on sheet size and press
- Automatic planning based on stocks, presses, and finishing
- Create the most cost-effective layouts
- Gang jobs to beat your estimates and increase margins
- Mix folded and flat work for optimal sheet utilization

Better Automation Intelligence

- Set up planning rules to group orders
- Keep products in strips by product, size, or finishing effects
- Add custom fields for grouping or marks
- Use JavaScript to build even more planning logic



Book Work Simplified

- In-line and near-line roll-fed finishing
- Cut-and-stack sheetfed finishing
- Perfect bound, saddle stitch, and smyth-sewn binding
- Use JDF standard folding patterns
- Build custom folding patterns

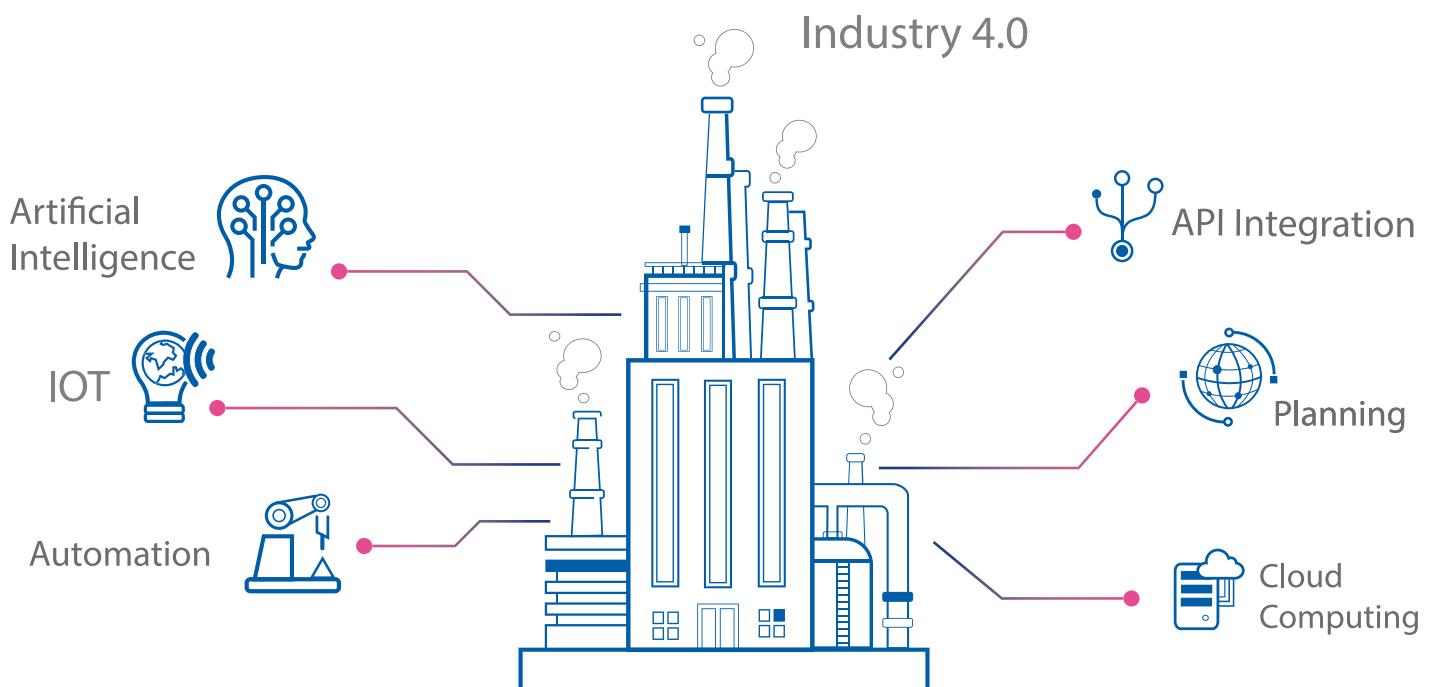
CONNECT EVERYTHING WITH TILIA CLOUD

A Digital Clone of Your Production Environment

Tilia Labs is revolutionizing the way the industry connects to devices. Tilia Cloud's vendor agnostic and open framework allows for our customers to build an IoT platform to enable Industry 4.0.

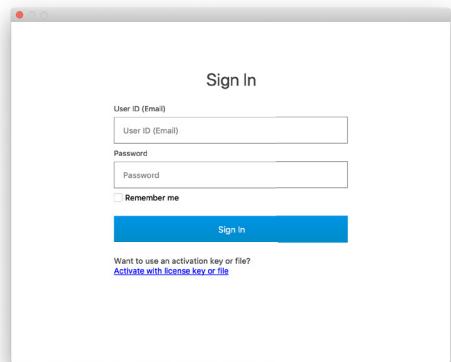
When devices communicate, smarter cost-based decisions can be made in real-time to reduce errors, save costs, automate production, and eliminate human decision making.

Tilia Phoenix is the industry's first IoT enabled planning and imposition tool





Cloud-Based User & License Management



HASSLE-FREE LICENSING
Sign in and go! User licensing is defined via cloud rules.



SHARE YOUR LICENSE
Another department needs Phoenix? No problem, add unlimited users to Tilia Cloud!



ACCESS FROM ANYWHERE
Access from work, home, or another country. It's your software!



DOWNLOAD ANYTIME
Computer crashed? Upgrading your OS? Just download the latest version and sign in!

Zund Cutting Time Integration

An industry first, Tilia Labs has developed an **IoT-enabled integration** with the industry-leading Zund cutting tables. Customers using both tilia Phoenix and Zund Cut Center 3.0 can configure tilia Phoenix to enjoy highly accurate, real-time **Zund cut time estimates** further upstream during the estimation and planning process.



ZUND
swiss cutting systems

DIEGO SAYS...

"We needed an imposition tool that would work for all vendors across all platforms even to the point of working across small format and large format devices and Phoenix is the tool that does that."

Diego Diaz

Online Production Manager at The Bernard Group



TILIA LABS, INC

207 Bank St. Suite 454

Ottawa ON K2P 2N2

Copyright © 2019 Tilia Labs. All rights reserved.

All specifications are subject to alteration.