

Introduction to Madico's Material Development Capability

*A plan bringing new
functional films to market*



Madico, Inc. Corporate Fact Sheet

- ❖ Founded in 1903
- ❖ Subsidiary of Lintec,
a +\$2.0B Japanese global giant
- ❖ +350 employees
- ❖ 2 wholly owned USA
manufacturing locations
- ❖ Global sales reach



Proven History in New Product Development



Application
Development
Expertise



World-class Manufacturer
of Multilayered Functional Films



Complete Process Capabilities
from Bench to Plant

MADICO®



The Lintec Corporation



Madico is the largest contributing subsidiary of Lintec, Corp.

Lintec Corporation:

- ❖ Established 1934.
- ❖ Headquartered in Tokyo, Japan.
- ❖ Publicly traded.
- ❖ \$2 Billion+ Annual Revenue.
- ❖ 4,200+ employees.
- ❖ Strongly linked to subsidiaries through:
 - ❖ Swapping/sharing business, operational, and research resources
 - ❖ Coordinated business planning

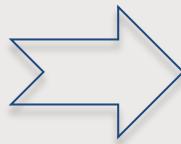


Sincerity and Creativity

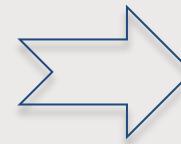
MADICO® *Imagination. Innovation. Collaboration.*

The Components of a Madico Solution

*It's the
right chemistry*



*With the
right process*



*In the right
material form*

Polymer Films

PET
PU
EVA
FP

Coatings

PU
FEVA
Acrylics
PE

Adhesives

PU
Epoxy
Acrylics

Additives

Inorganics
Organics
UV absorbers
Optical Brighteners
Slip Agents
Dispersants
Etc.

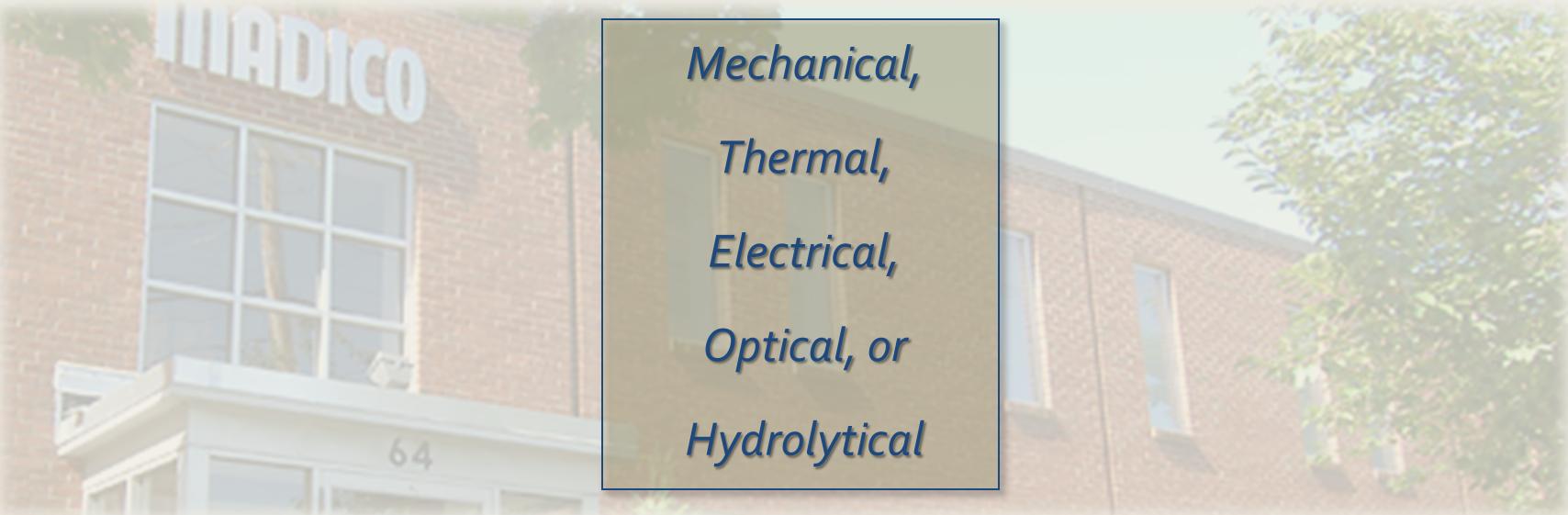
Composition





What This Means to You, Our Customers

We can provide **film solutions** to your performance needs related to properties such as:



*Mechanical,
Thermal,
Electrical,
Optical, or
Hydrolytical*

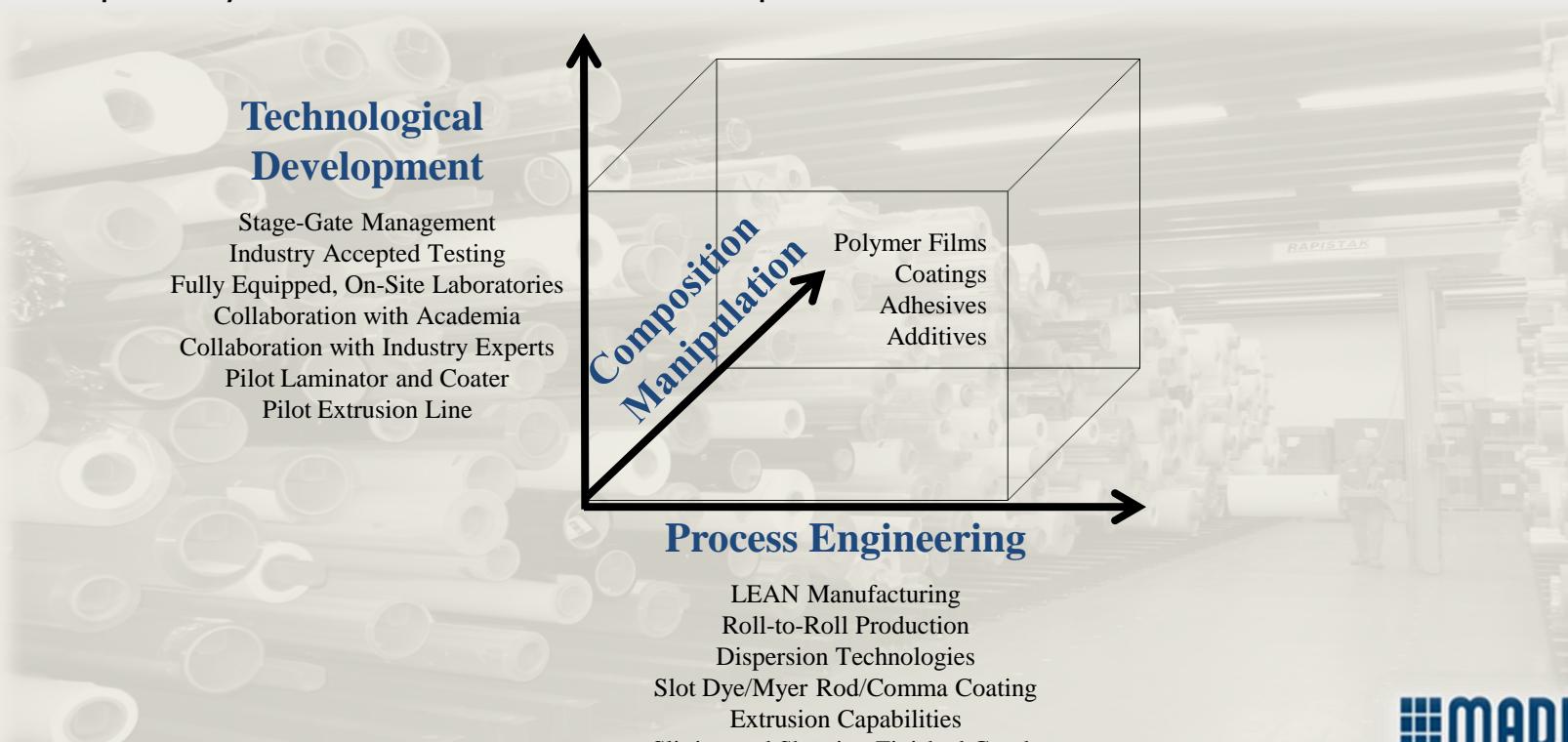
Of course, all Madico products are built from unsurpassed quality and durability standards.

Simply stated: ***they are built to last.***

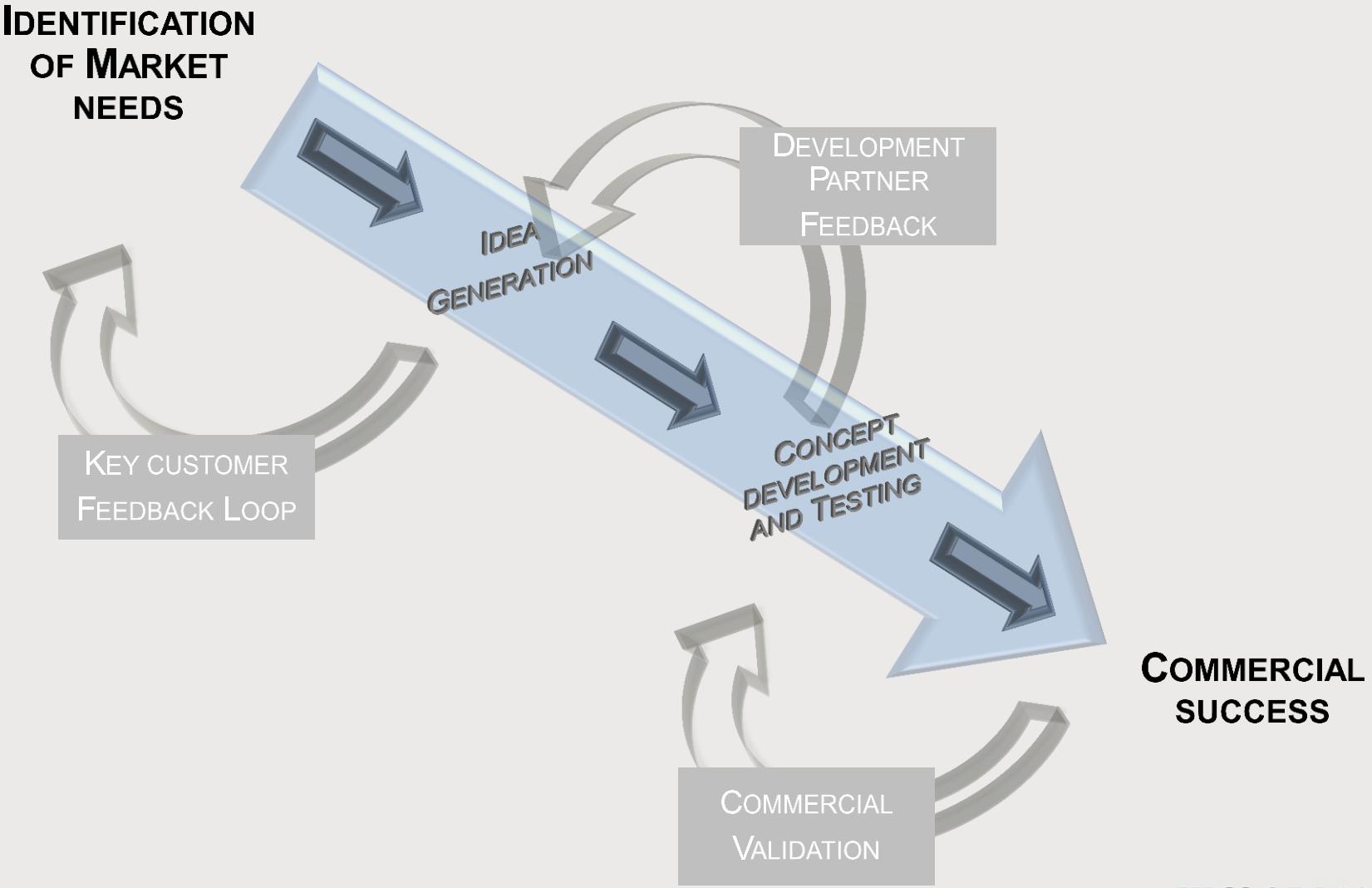
Executing on a Vision

Madico's vision is to supply innovative, valuable, best-in-class solutions to the Renewable Energy, Energy Conservation, Safety, and Security markets.

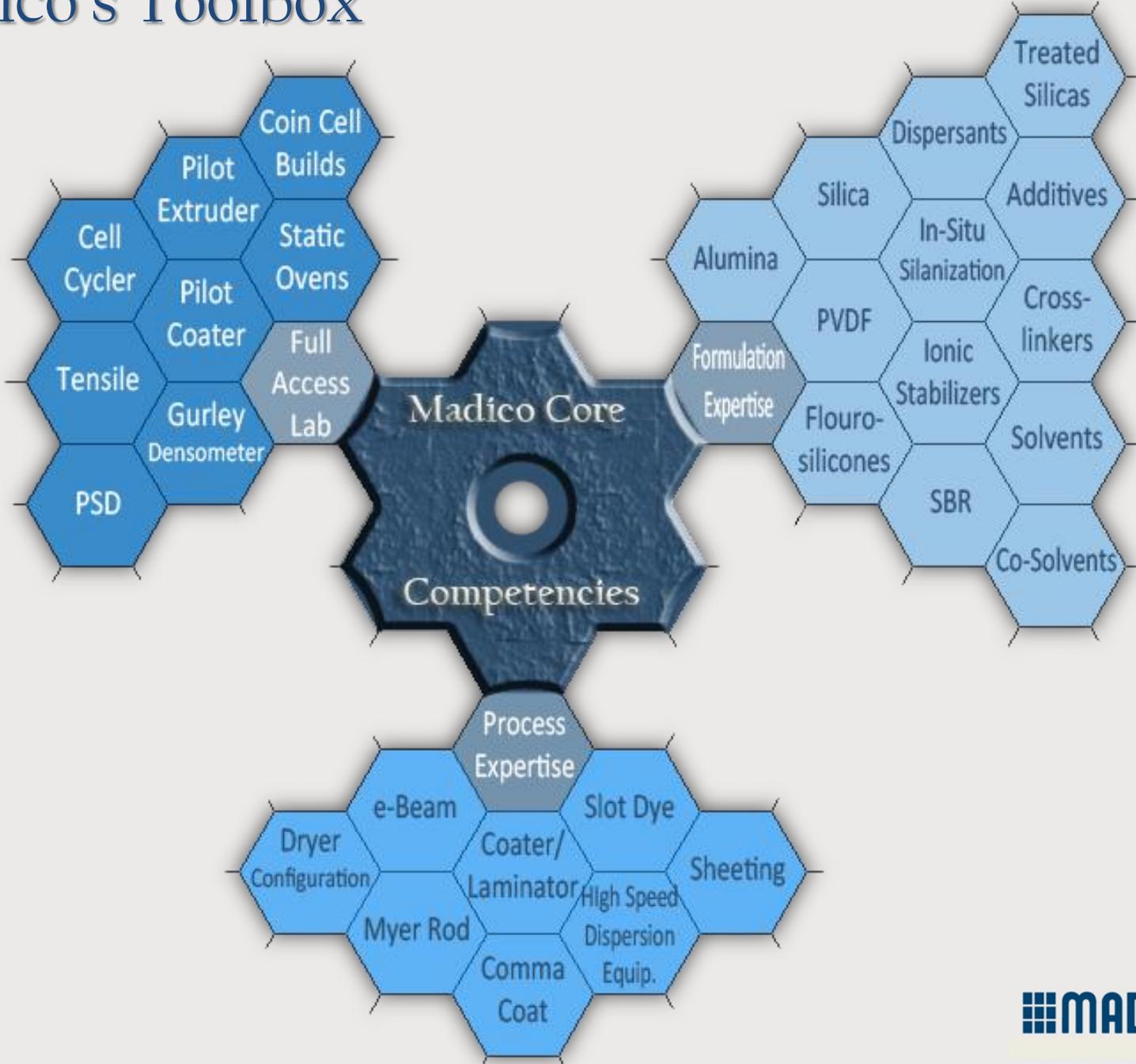
Our solutions are drawn from our ability to consistently combine and manipulate complex layers and chemistries into sophisticated coated and laminated materials.



The Convolute Path to Commercialization



Madico's Toolbox



Building a Solution Together

Our Services

- Contract coating and laminations***- To help you keep up with demand.
- Contract converting***- Slit to custom widths and sheet to custom sizes.
- Developmental programs***- To bring your ideas to commercialization.

Our Process Capabilities

- Global reach:
 - Five Commercial lines:
 - R&D pilot coater/laminator:
 - Process:
 - Quality Control:
 - Chemistry:
 - Mixing:
 - In-Line Oven Drying:
 - Other:
- Two wholly-owned manufacturing sites and four flex sites.
64", 65", 67", 76", and 78" maximum web widths
16" max width
Gravure, Knife-over-Roll, Floating Knife, Comma Coating, Slot-dye,
Meyer Rod. Corona Treatment.
ISO 9001 certified, in-line cameras, viscosity controls.
Solvent and aqueous.
Pigment dispersion, blending, under-ground solvent tanks.
Up to 375°F
Slitting, Sheeting, Rewinders, Two-side coating and Tri-laminations.

Metalized and Optically Clear

Films, Nonwovens, Polyester (PET), Polyolefins (PE, PP) Vinyls, PEEK, PVDF, PTFE, Tedlar® (PVF), as well as foils and a variety of coated papers.

Markets & Industries Currently Served

Window Films, Impact Films, Photovoltaic Components, Membranes, Renewable Energy, Energy Conservation, Safety, and Security Marketplaces.

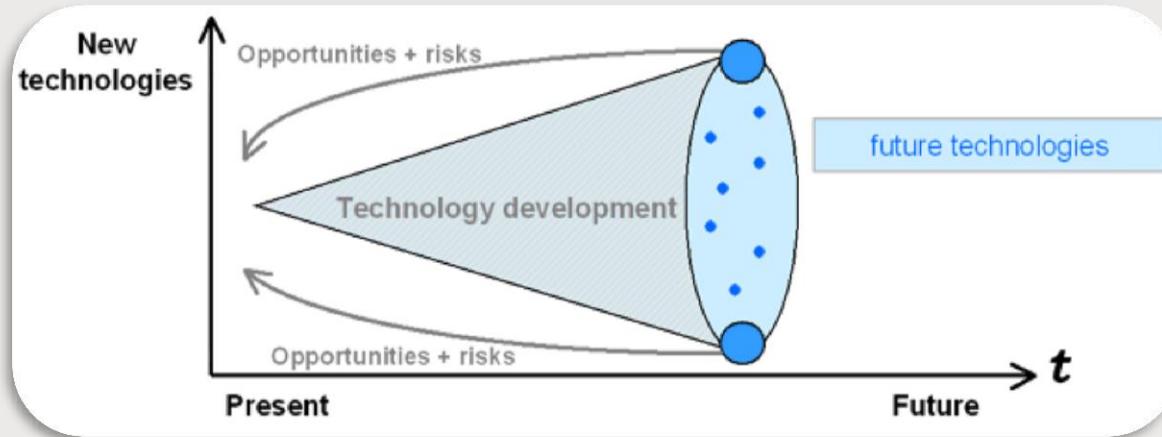
Madico Development Structure

In 2011, Madico reorganized development into a single business unit. This organization is charged with building new businesses and developing future-oriented technology platforms to significantly impact Madico's profitability.

The business unit utilizes three well defined development processes to execute its charge:

1. Innovation Monitoring
2. Exploration and Validation
3. Stage Gate Project Development

Innovation Monitoring Schematic:





The Secret to Madico's Success

Fast, Flexible, and LEAN

Our customers often require unique solutions in distinct timeframes with a consistent quality.

Madico's history of LEAN manufacturing and processing allows us to be fast and flexible in response to these varying requirements.



We pride ourselves on our history of continually improving the process, whether it be manufacturing, sales, or customer service processes.

To this end, we often work directly with customers to manage an optimal supply chain flow, allowing you, the customer, to be reassured you can receive ***what you want, when you want it, and how you want it.***



Thank You



For more information please visit: www.madico.com