MAGMA REINVENTS GLASS MAKING AND ENHANCES O-I'S CAPABILITIES

EXPAND RIGHT TO WIN WITH RAPID COLOR, SHAPE & SIZE CHANGES

GROW WITH THE MARKET WITH SCALABLE CAPACITY

ENTER NEW MARKETS WITH SCALABILITY & LOWER CAPITAL

COST EFFICIENT WITH MORE VARIABLE COST STRUCTURE

AGILE THROUGH ECONOMIC CYCLES & SEASONALITY

LOWER CAPITAL INTENSITY WITH EXTENDED ASSET LIFE

SUPPLY CHAIN EFFICIENT WITH CO/NEAR LOCATION

CONVENIENT PACKAGE WITH LOWER WEIGHT CONTAINER

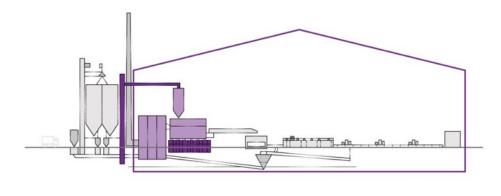
SUSTAINABLE PRODUCTION WITH LOWER EMISSIONS



MAGMA COMPARED TO HERITAGE TECHNOLOGY

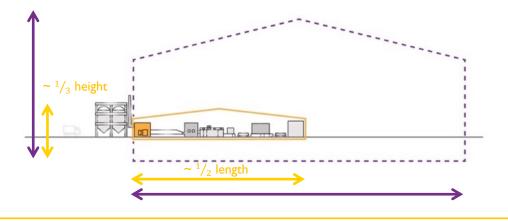
HERITAGE

REQUIRES DEDICATED GLASS FACTORY

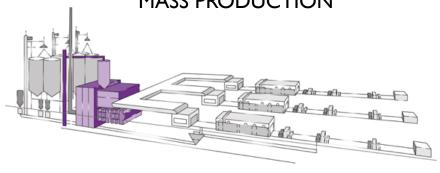


MAGMA

FITS WITHIN INDUSTRIAL WAREHOUSE



REQUIRES MULTI-LINE MASS PRODUCTION



ENABLES SINGLE-LINE NIMBLE SUPPLY CHAIN





MAGMA DEVELOPMENT PROGRESSING VERY WELL

MAGMA is being developed across three generations with specific design principles.

DESIGN PRINCIPLES

- INVENT
- 2 SIMPLIFY
- 3 DIGITAL
- 4 MINIATURE
- 5 MODULAR
- 6 SUSTAINABLE

DEVELOPMENT

GEN 3 2025+

- DIGITALIZE
- PREDICTIVE PROCESS
- ULTRA LIGHT WEIGHT
- RENEWABLE FUELS

GEN 2 2023+
RETROFIT HERITAGE BASE EXPANSION

- MODULAR BATCH
- MODULAR FORMING
- MODULAR INSPECTION
- MODULAR COLD END

GEN 2022-

MODULAR MELTER





MAGMA'S POTENTIAL BENEFITS

O-I expects MAGMA will significantly enhance O-I's capabilities and competitive position.

OBJECTIVES	MAGMA GEN 3 ¹ IMPROVEMENT VS HERITAGE (2025+)
I. FLEXIBLE	Achieve attractive economics at 15% lower utilization rate
2. SCALABLE	New melter reduces capacity per line to 25-50% of heritage
3. RAPID DEPLOYMENT	Reduce deployment time by up to 50%
4. SUPPLY CHAIN EFFICIENT	Reduce shipping distances by 30-80%
5. COST COMPETITIVE	Reduce cost gap with competing substrates by 50-75%
6. LOWER CAPITAL INTENSITY	Reduce capital intensity up to 40%
7. CONVENIENT	Reduce product weight up to 30%
8. SUSTAINABLE	Reduce GHG emissions by up to 95%

INVESTMENT CRITERIA CAPITAL ALLOCATION TO ACHIEVE TARGETED RETURNS

EXPANSION SUBSTANTIALY SUPPORTED BY CUSTOMER AGREEMENTS



MAGMA IN ACTION





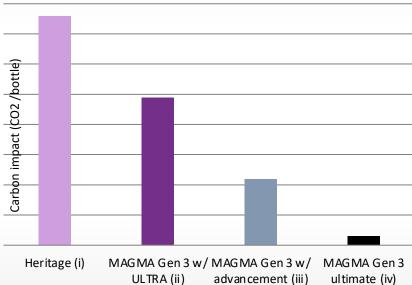




MAGMA TO IMPROVE SUSTAINABILITY



POTENTIAL CARBON IMPACT OF MAGMA VS. HERITAGE



Illustrative representation of carbon impact per bottle (g CO2 /unit)

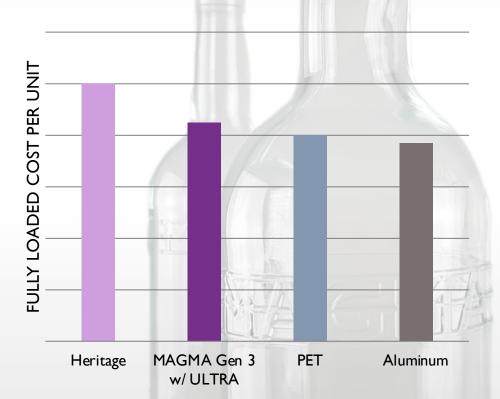
- (i) oxygen-fuel furnace, ~ 35% recycled content;
- (ii) ~ 55% recycled content;
- (iii) with co-location and ~ 95% recycled content;
- (iv) with renewable energy

Source: Internal analysis supported by third-party analysis

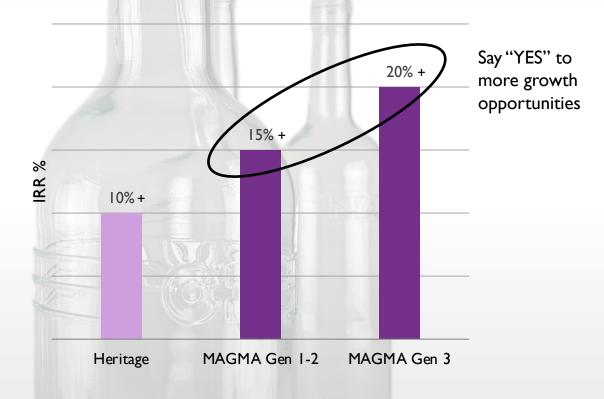
CLOSING THE COST GAP & IMPROVING RETURNS

MAGMA can substantially close the price gap with alternative substrates and boost returns.

COST COMPARISON



EXPANSION HURDLE RATES (IRR)





MAGMA expands O-l's right to win in its addressable market.

HOW WE WILL WIN

- Faster speed to market
- Faster capital deployment for growth
- Shorter product development cycle & launch
- Logistics improvement
- Shorter production runs

EXAMPLES

- Still/sparkling wine
- Whiskey
- Premium+ spirits
- Spirit based RTD
- RTD tea
- Spices/table sauces



CUSTOMER ATTRIBUTES

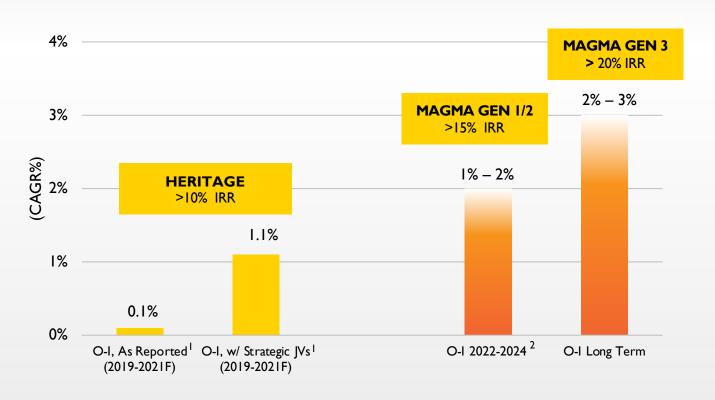




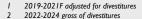
MAGMA ENABLES SUSTAINABLE GROWTH

MAGMA will enable above market average growth long-term.

ENABLING SUSTAINABLE PROFITABLE GROWTH











YES! TO A NEW PARADIGM FOR GLASS

MAGMA IS A UNIQUE COMPETITIVE EDGE:

MAGMA IS AN O-I INNOVATION – >100 PATENTS/APPLICATIONS WORLDWIDE

MAGMA UNIQUELY ALIGNS O-I TO EVOLVING MARKET REQUIREMENTS

MAGMA IS MORE COST EFFICIENT WITH LOWER CAPITAL INTENSITY SO O-I CAN SAY 'YES' TO PROFITABLE GROWTH

MAGMA CAN UNIQUELY ENHANCE
O-I'S SUPPLY CHAIN

MAGMA MAKES O-I GLASS MORE SUSTAINABLE VS COMPETITION

