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Investor Meeting 2022

intel.

Investor Meeting 2022

Welcome!

Dr. Randhir Thakur

President, Intel Foundry Services

The Intel logo, consisting of the word "intel" in a lowercase, sans-serif font, is positioned within a white square. This square is part of a decorative graphic in the bottom-left corner of the slide, which includes several overlapping squares in various shades of blue.



IFS will Serve Customers with Broad Foundry Portfolio

Exceptional Customer Focus, Leadership Technologies, Globally Diverse Manufacturing, Broadest IP Portfolio and World Class Service Organization

The Foundry Market is Large and Aligned with Intel's Core Strengths

Opportunity grows to ~\$180B TAM* by 2030

Strong Momentum Since IFS Launch; Tower Accelerates Our Vision

Customer Interest, Ecosystem Engagement and Government Programs

IDM2.0 Strength Accelerates IFS Path to Profitable Growth

Leverage IDM Scale, Maximize Operating Synergies and Government Incentives

IFS Will Make Intel Better & Intel Will Make IFS better

*Source: Gartner

Innovative Foundry with Global Scale


We will offer a **broad portfolio** to the market ...



0.5um to leading edge silicon technology and advanced 3D Packaging



Multi ISA support
X86 | arm | RISC-V




Robust IP ecosystem
Intel + 3rd party



Industry leading innovations: Chiplet
Open Platform, LIDAR

... with a **customer-centric** business model ...



Relentless focus on customer service and co-development



Flexible commercial models tailored to customer needs



Industry-focused technology platforms
Auto | Mobile | Compute




\$1B IFS Innovation fund in partnership with Intel Capital

... accelerated by the **power of Intel**



Deep technology & manufacturing expertise



Robust supply chain at scale

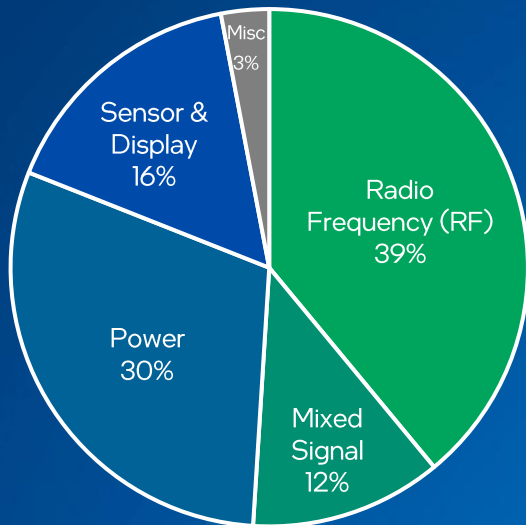


Only US-based foundry with leading-edge R&D



Globally diverse manufacturing footprint

At a Glance ...



Serving major markets

Mobile, Infrastructure, Automotive, Industrial, Consumer, Medical

20+ Years of foundry experience

- Mature foundry operations model
- Customer service culture

Specialty technology leader

- Expertise in RF, SiGe, Power, Imaging and Displays

Global manufacturing footprint

- 8 facilities in the US, Israel, Italy, Japan
- 2x 300mm fabs, 5x 200mm, 1x150mm, .5um-45nm

Deep customer and ecosystem relationships

- Strategic roadmap alignments and long-term partnerships with leaders in each of its served markets
- Broad IP portfolio and EDA partnerships

\$1.5B

2021 revenue

~19%

YoY growth

200+

Worldwide Customers

> 5.5K

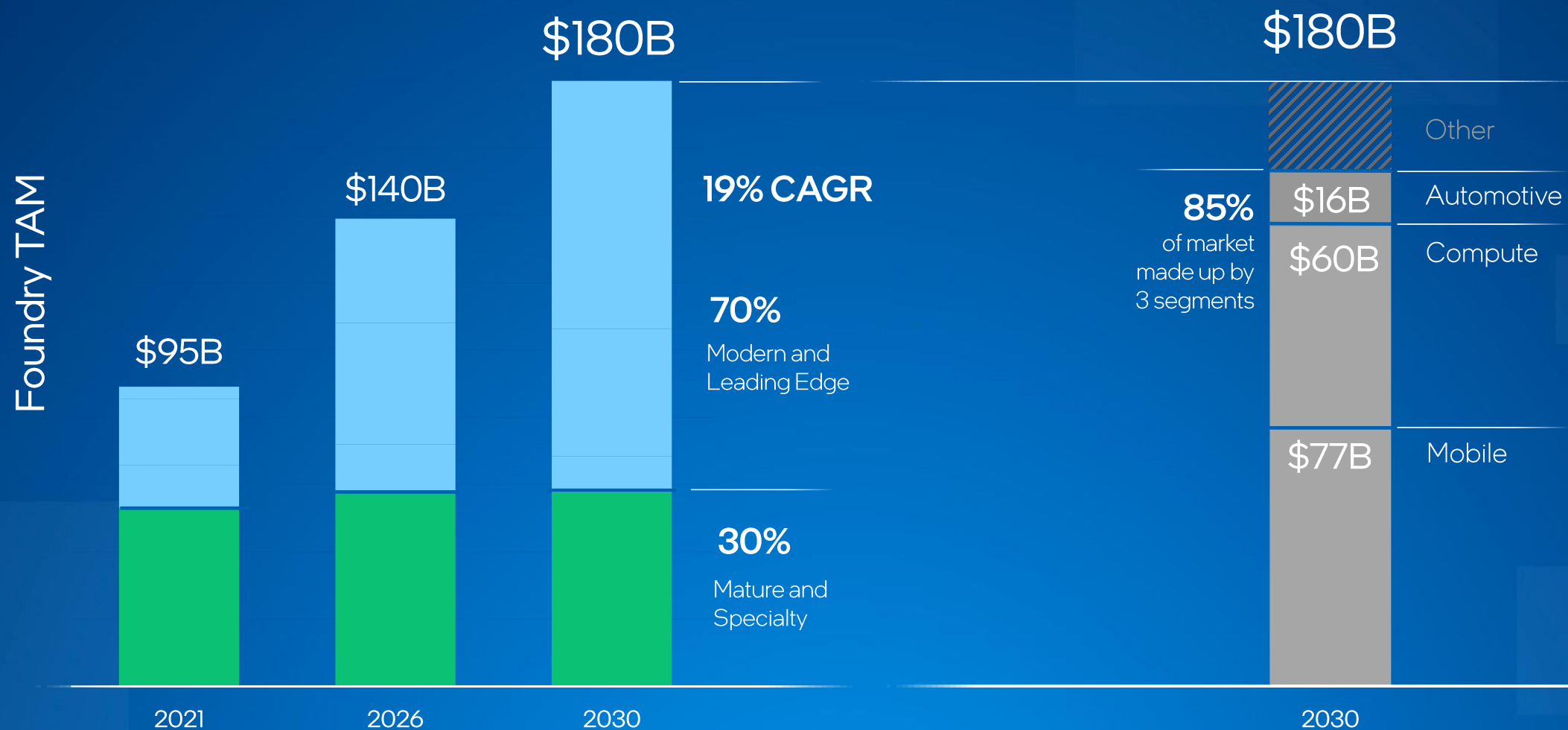
Worldwide Employees

> 60

Patents granted in 2020, spanning the breadth of Tower technology



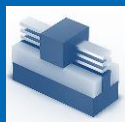
Serving a Growing Market



Source: Gartner, IBS

Winning the Foundry Growth Segments

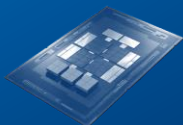
Compute



Performance

intel x86
arm
RISC-V

Multi ISA



Chiplet Integration

Mobile



Mobile SoC



RF Front-end



Power Management

Automotive



AD/ADAS



MCU Integration



Electric Vehicle
Battery Management



- Technology leadership on leading edge nodes
- Scale manufacturing



- Differentiated specialty technologies
- Foundry sales and customer support

Serving Customers with a Roadmap of Differentiated Offerings

Process

intel
foundry
services

Leading-Edge
Process
Technologies

Tower
Semiconductor

Specialty
Technologies

Available Today

2H'24

Intel 18A

Leading-edge Performance with RibbonFET and PowerVia Technologies

2H'23

Intel 3

Enhanced FinFET Technology with Extensive Use of EUV Technology

2022

Intel 16

Versatile FinFET Design Platform for High-performance and Low-power Products

Foundry Production Start

Analog/RF

Logic

Power Management

SiGe BiCMOS

Image Sensors

.5um

45nm

IP

intel x86

First-time ever available for
foundry customers

arm

Validated and Proven
on Intel Technology

RISC-V

Mainstream Offering
through Intel Support

Ecosystem IP

Growing Portfolio of
3rd party IP

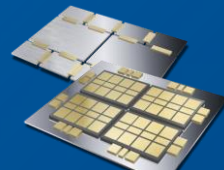
Specialty IP

Design Enablement for RF, Power,
Optical and Automotive

Package Assembly Test

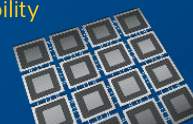
EMIB,
Foveros

Available
Today



Foveros Omni/Direct

Target Availability
2H 2023



Direct Bonding

Available
Today

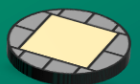
Tower



Large Die Stitching

Available
Today

Tower



Strong First Year Momentum

"In less than a year, IFS has created a world-class foundry business built on Intel's leadership technologies. Cisco is pleased to be one of Intel's early foundry customers, partnering to deliver our high-bandwidth networking silicon to drive the internet for the future."

Chuck Robbins
Chair and CEO, Cisco



USG Commercial
Foundry Contract
With RAMP-C Partners

5+

Anchor Prospects in
Design Engagement

>30

Customer and
Ecosystem Test chips
committed in 2022

Fab Expansion

● Arizona

● Ohio

+ **Tower**
Semiconductor

intel.
foundry
services

Accelerator

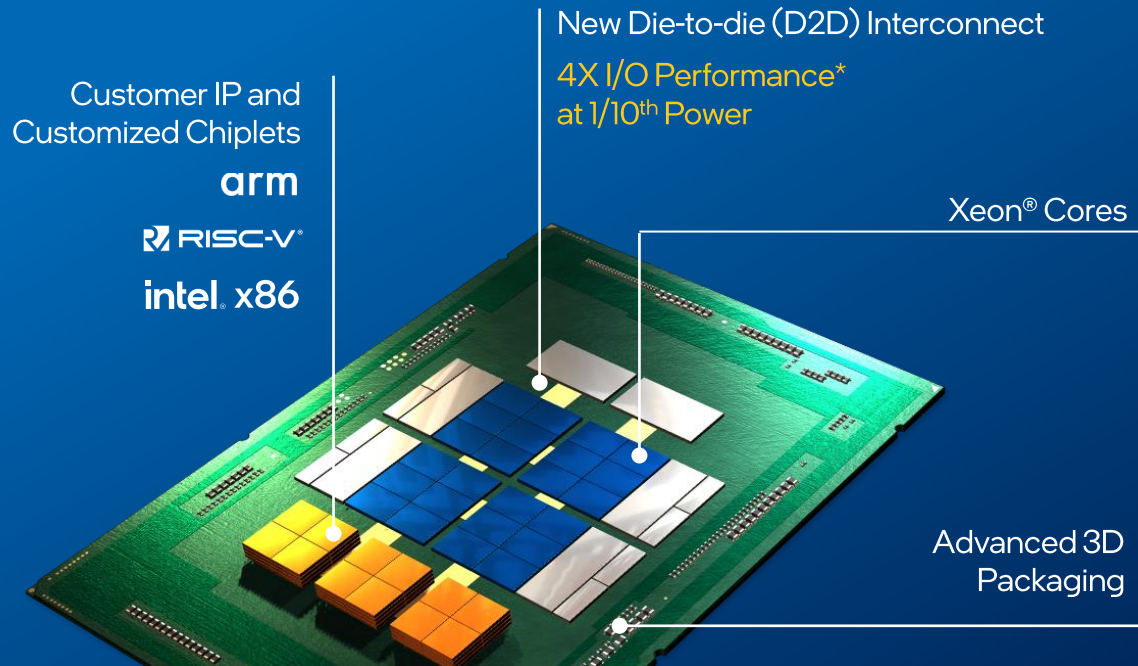
Alliances launched
with >15 Top Partners

>50

Top Leaders with
deep Foundry
experience joined IFS

Winning Strategic Inflections - Chiplet Revolution

Open Chiplet: x86 Platform on a Package



*compared to PCIe G5x16

Opportunity

- Datacenter Megatrend: Accelerators
- Strong Customer Demand

AI
Media
HPC
Networking
Storage

Value Offering

- Open Die-to-Die Interconnect Standard
- x86 Platform & Packaging Leadership
- Customization with IP, Full Integration, and Validation

Customer Engagement

- Key CSPs Endorsed Strategy & Direction
- Value Prop: Fastest Time-to-Market with High Quality

"We will lead a platform transformation enabling new customer and partner solutions with "Chiplets"" - Pat Gelsinger

Winning Strategic Inflections – Automotive

Automotive Market



4% of Auto BOM* now

- Digitization: Autonomy & Compute Centralization
- Electrification: Hybrid and EVs
- Geo-Political & Supply Challenges



20% of Auto BOM* by 2030

*Premium car segment

2030 Foundry Opportunity

\$16B TAM
>80%
addressable

\$5B AD/ADAS

\$3B RF and Sensors

\$5B Power Management

IFS Automotive

Dedicated Automotive Group
Innovation with Time-to-Market through IFS Accelerator

Customer Solutions

Auto Grade Foundry Platform

Intel 3, Tower Specialty, Intel LIDAR

+

Open Auto Compute Platform

Differentiated IP, Chiplet, and Packaging Flexibility



Anchor Partner



Sources: Gartner, Inc.: "Semiconductor Forecast Database, Worldwide, 2Q21 Update"

Automotive Customers are Looking for a New and Different Partnership Model with IFS

IFS Innovation Fund in Partnership with Intel Capital



\$1B Innovation Fund

Equity investments in disruptive start-ups
Strategic investments for scale partnerships
Ecosystem investments for IFS scale

IP Architecture
Tools & Software

Priority
Wafer
Shuttles

Multi ISA
support
X86 | arm |
RISC-V

Key Opportunities Innovation Partners

Chipselets

MOVELLUS

Next-Gen Display

Aledia

RISC-V



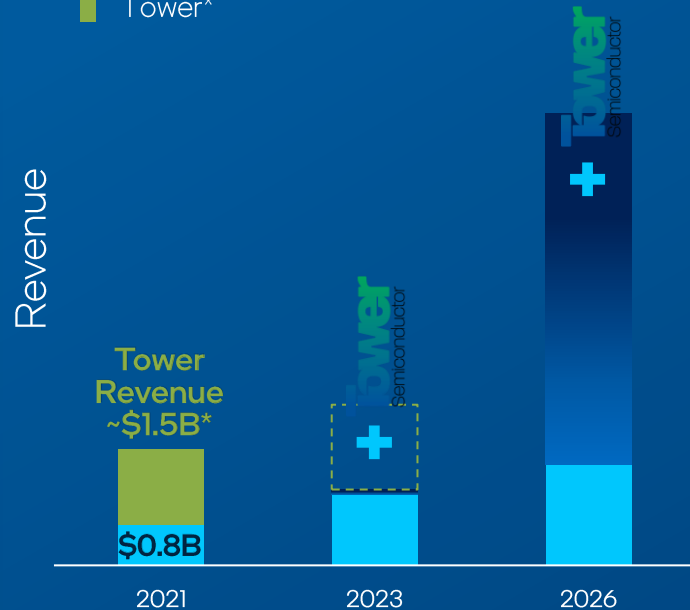
IFS Innovation Fund Lowers Barrier to Entry for Tomorrow's Market Leaders

IDM2.0 Strength Accelerates IFS Path to Profitable Growth

\$180B
2030 TAM

With a wide range of process, IP, and packaging,
IFS Will Become the Trusted Provider of Foundry Services

Existing IFS
Leading Edge
Tower*



Existing IFS Revenue
through the horizon

Engaging with large anchor
customers in each segment
Investing in space and TD now

Tower accelerates our entry into
the foundry market



Smart Capital and
IDM2.0 Spending Synergies

Fully Leverage Existing Capital
Assets For Efficient IFS Reuse

IFS Leverages IDM Infrastructure,
IP and Technology Investments

Align Capital Investments with
Customer Commitments & Growth

Secure Capital Offsets to
Reduce and Mitigate Investment

* Includes FACT SET consensus estimates



We have **strong customer momentum**

IFS + Tower = Broad foundry **portfolio**

Leading and growing a **robust ecosystem** of foundry solutions

With **IDM2.0**, we're well **positioned for growth** in this large market

Accelerated by the **power of Intel**

intel®

Dr. Randhir Thakur

Leading Intel Foundry Services, a Key Element of Intel's IDM 2.0 Growth Strategy



30+ Years
in Semiconductor
Industry



300+
Patents



200+
Publications



6
Edited Books



Started career as
Process Engineer



Executive VP, NAND Tech. &
Manufacturing

Head of Global Operations &
Supply Chain

Led revenue growth from
\$2.5B to > \$5B



Exec VP and GM

Led the semi business to
deliver profitable growth
and market share gains



Former board member of
Marvell Semiconductor Inc.

Extensive experience in
working with TSMC,
Samsung, SK Hynix, and
OSATs



President, Intel Foundry
Services

Former Chief Supply
Chain Officer, Intel

