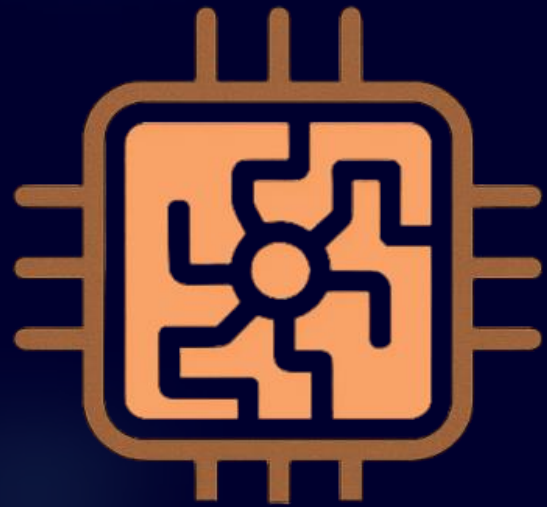


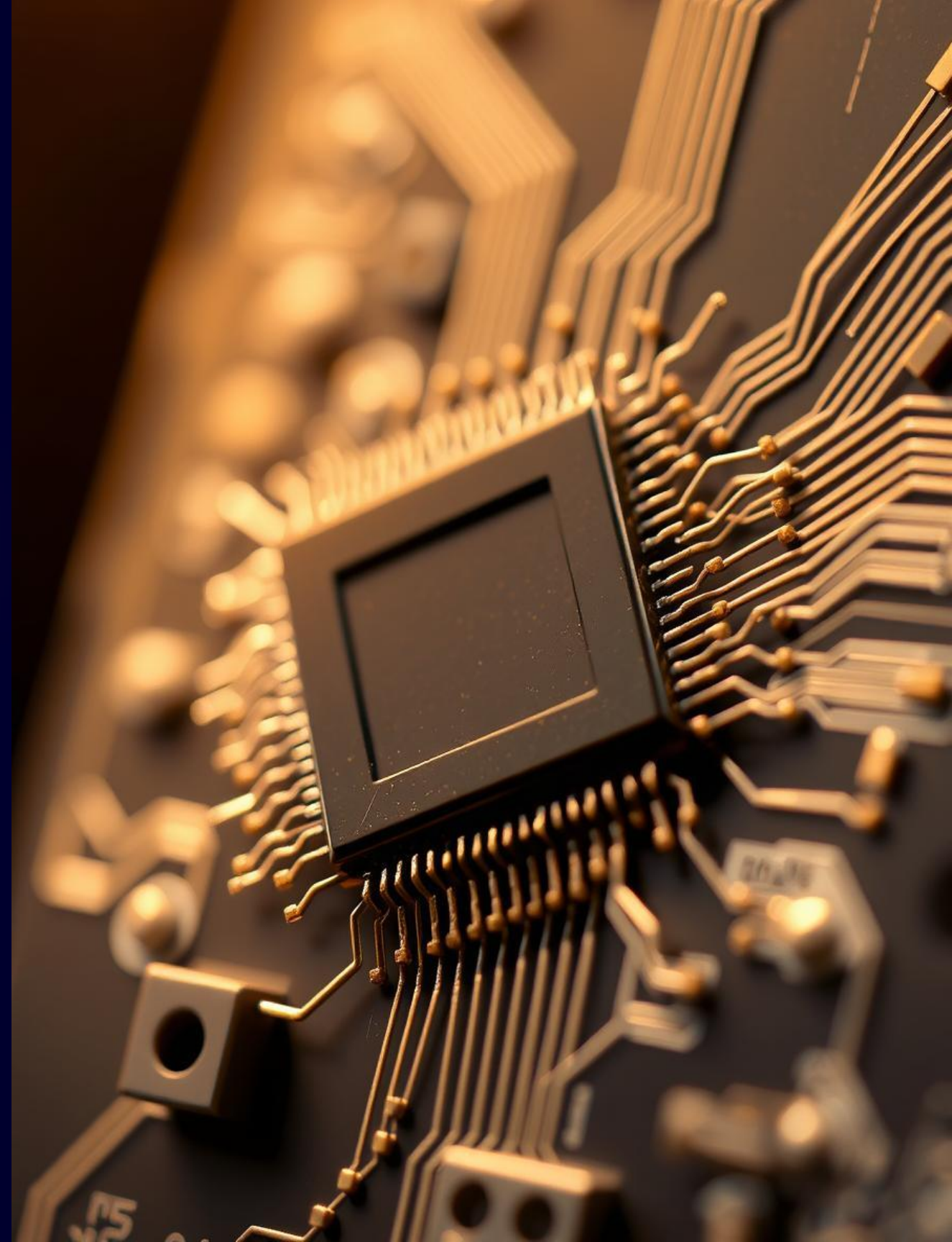


ChipSolver

Solutions for Microchip Physical Design

Where we help your product reach the market

Davi S. Castro,
Kliver B. Alves,
Mário Neto,
Nestor Matajira



Problem

AMS Design

Block Level
Backend

Top Level
Backend

Problem



Process Bottlenecks

No to little parallelism between project stages.



Idle Time

Teams might be idle while waiting for previous work to be finished



Elevated Costs

Being unable to deal with demand is highly costly.

Problem



Process Bottlenecks

No to little parallelism between project stages.



Idle Time

Teams might be idle while waiting for previous work to be finished

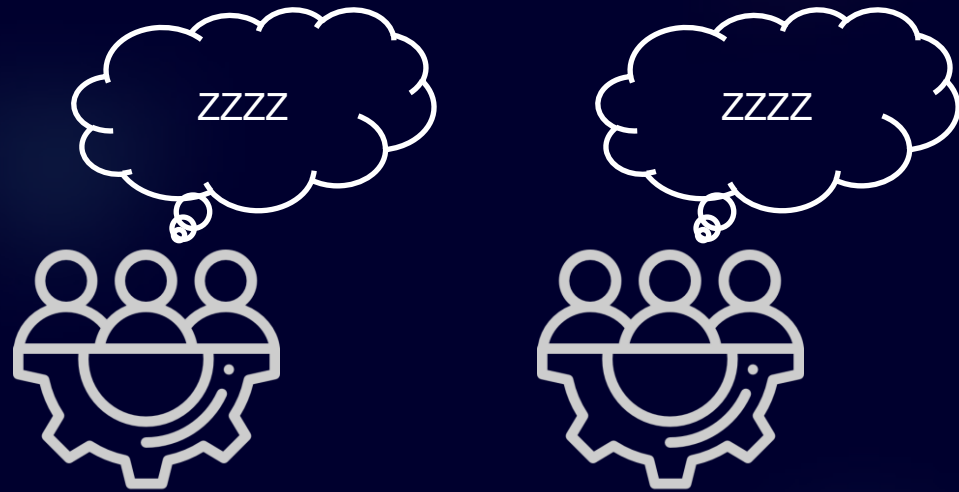


Elevated Costs

Being unable to deal with demand is highly costly.

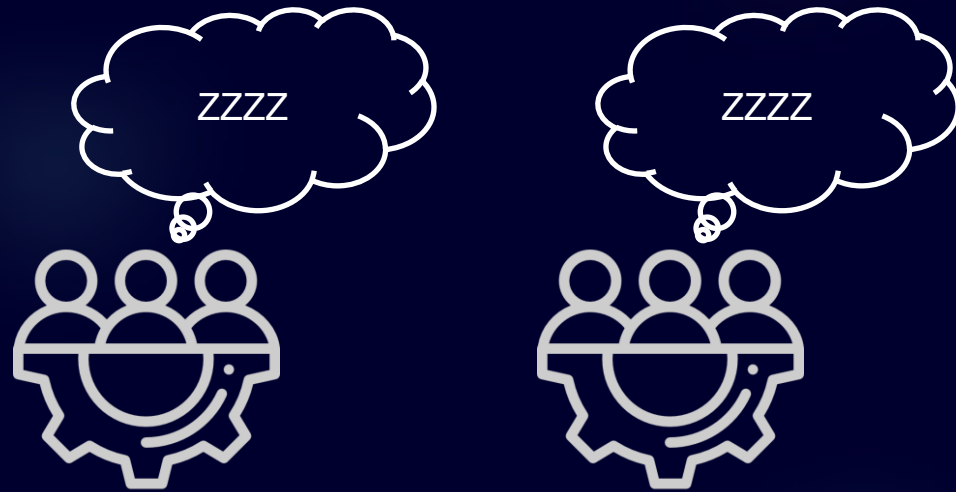
Target Market

- We can target both ends of the spectrum!



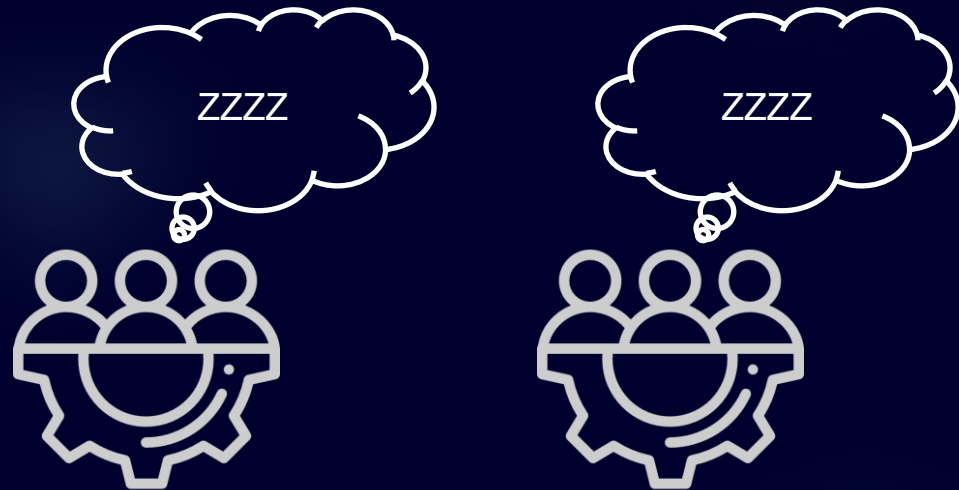
Target Market

- We can target both ends of the spectrum!



Target Market

- We can target both ends of the spectrum!



\$627B

Sales in 2024

Semiconductor Industry

\$1T

Projection to 2030

Growth Expected

\$425B

Chips Design (2024)

Specific Segment

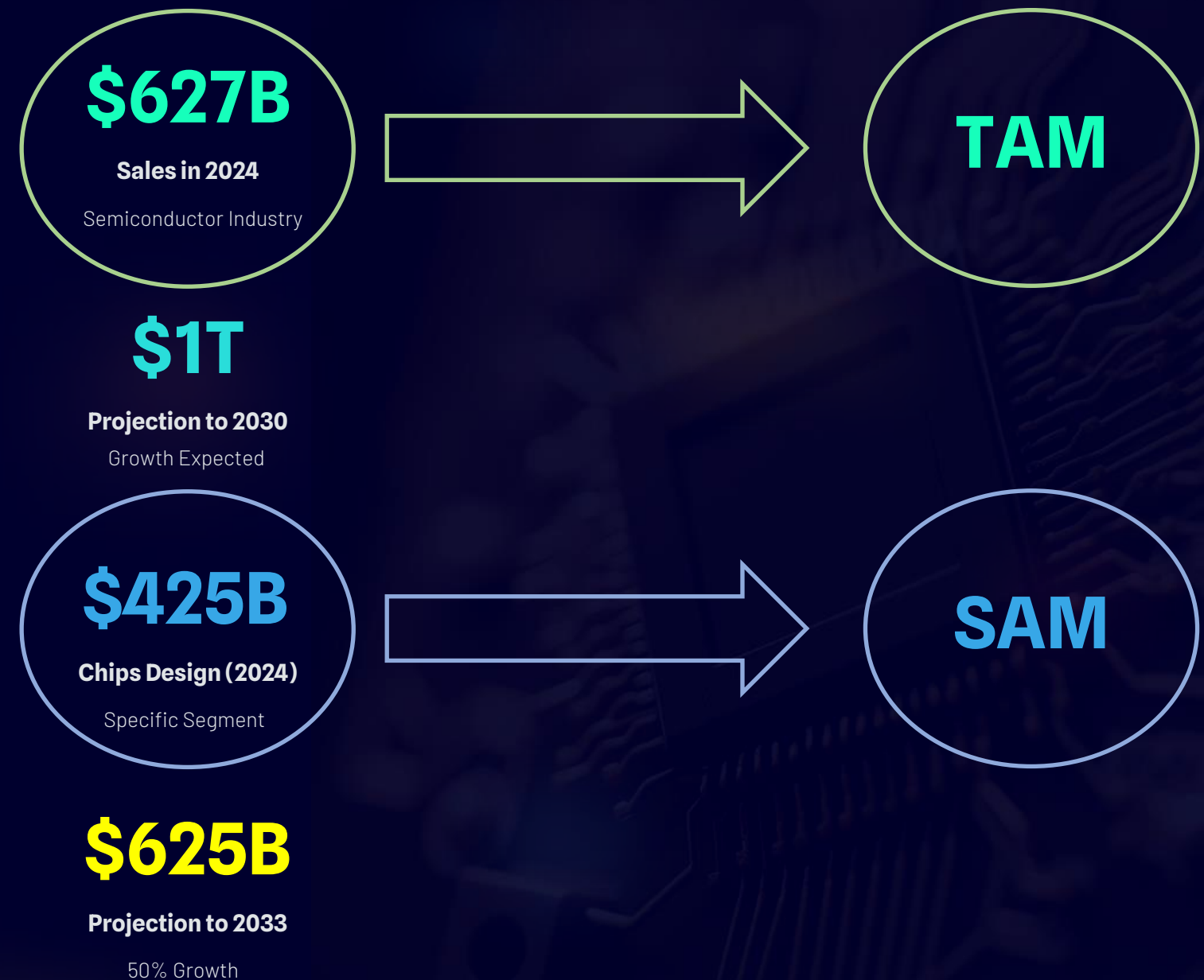
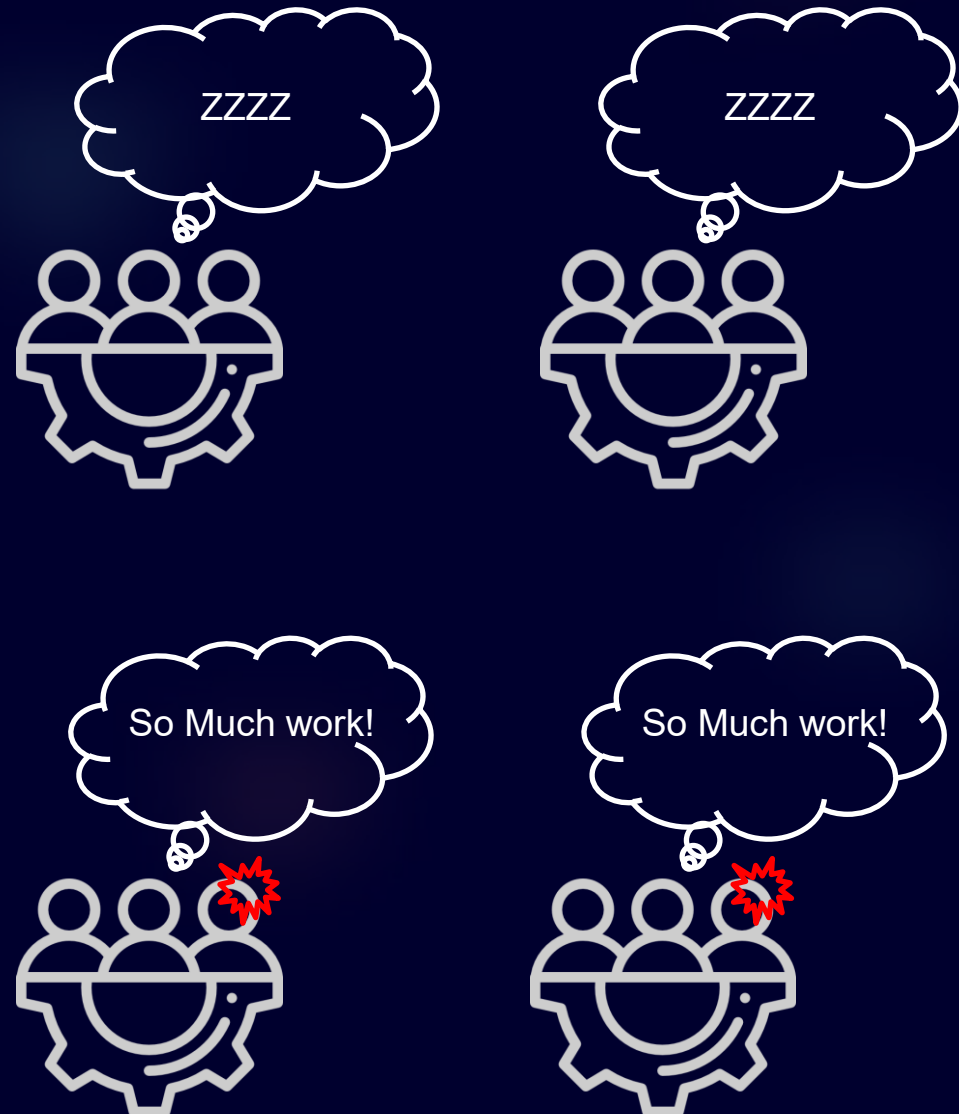
\$625B

Projection to 2033

50% Growth

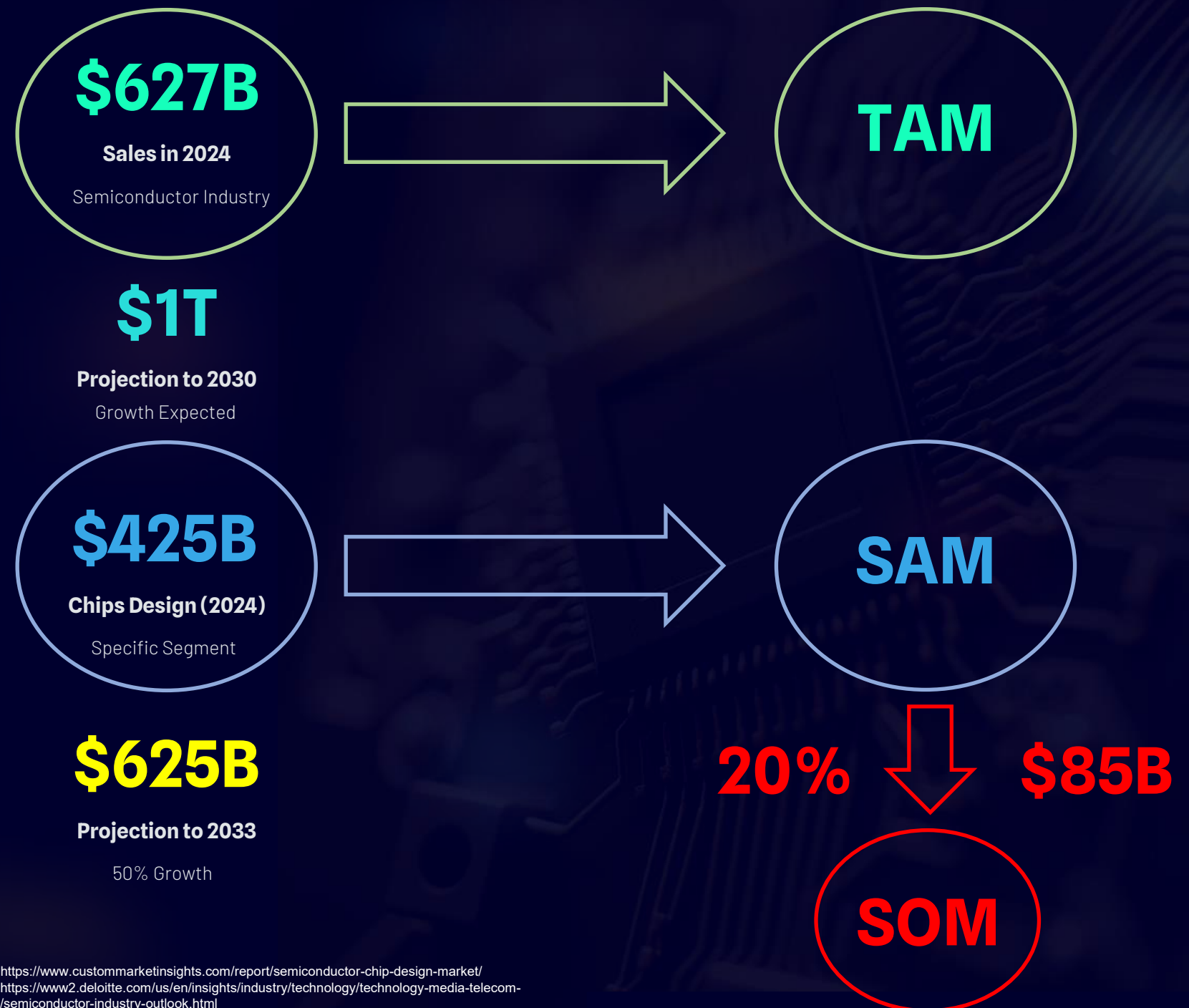
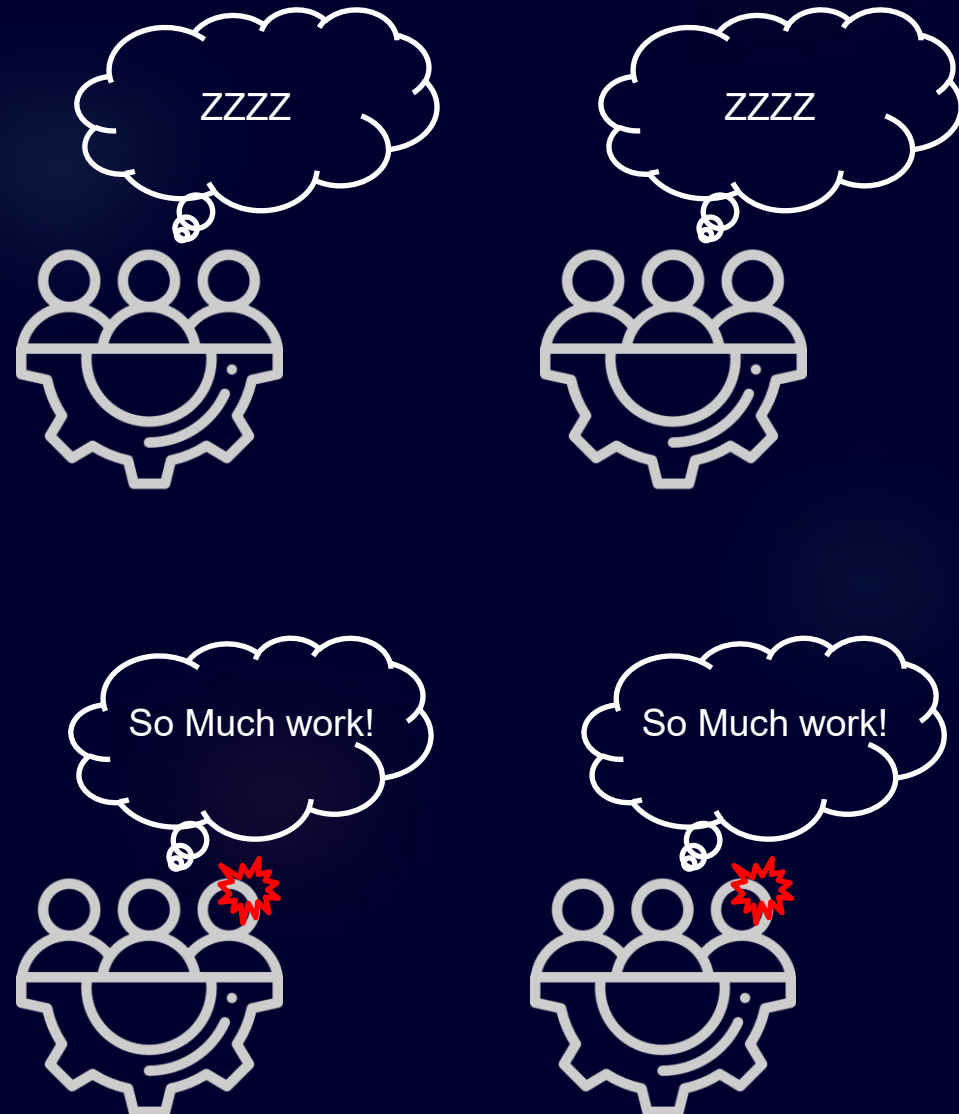
Target Market

- We can target both ends of the spectrum!



Target Market

- We can target both ends of the spectrum!



Solution

Specialized Services

- Place and Rout
- Pad Rings

Costs Reduction

- Physical Synthesis
- ESD Protection

Deadline Sensitive

- Floorplaning
- Consulting

Solution



Specialized Services

- Place and Rout
- Pad Rings



Costs Reduction

- Physical Synthesis
- ESD Protection



Deadline Sensitive

- Floorplaning
- Consulting



With our help your design will achieve

- Signal Integrity
- Power Efficiency
- Timing Requirements
- Area Reduction

Possible Competitors

SYNOPSYS®

GSME

cādence



EnSilica

Prodapt

Our Competitive Edge



Take Advantage of Open-Source Softwares

The use of open-source tools, like Magic or Klayout, allow for reduction of licenses costs and dependence.

(RePIAce, Resizer, OpenDP, Fast-Route)



Utilization of Company made Automation Scripts and Processes

By combining In-house automation processes with manual intervention, we achieve speed and minimize the number of iterations required.



Customer Driven Approach

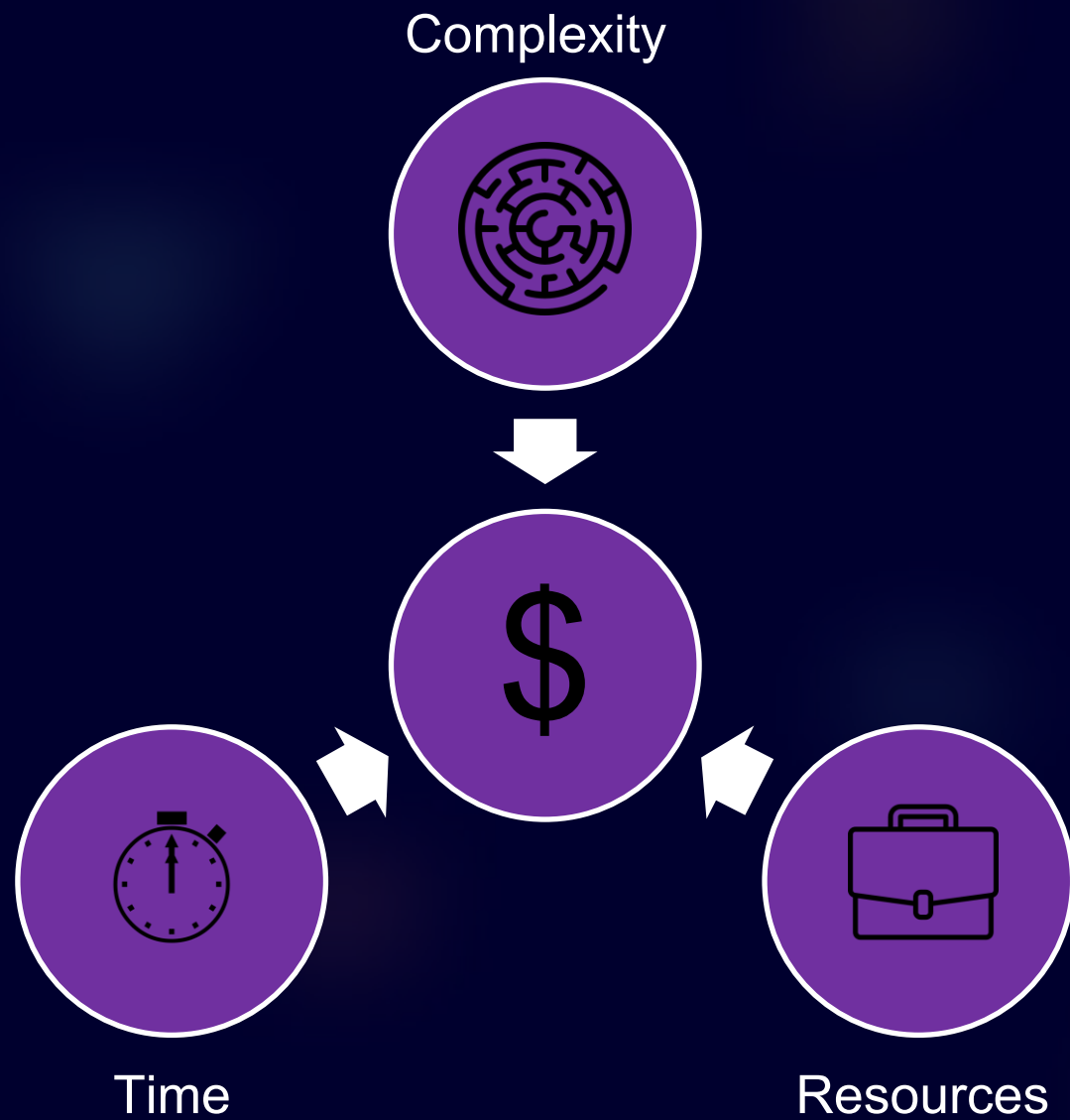
When hiring our services you can be sure that we will maintain constant feedback regarding the progress of the project.



Service Modularity/Capacity for Multiple Projects

With highly personalized services it is possible to undertake various projects of different complexities in parallel.

How do you make money



How do you make money

- Industry Standard Prices

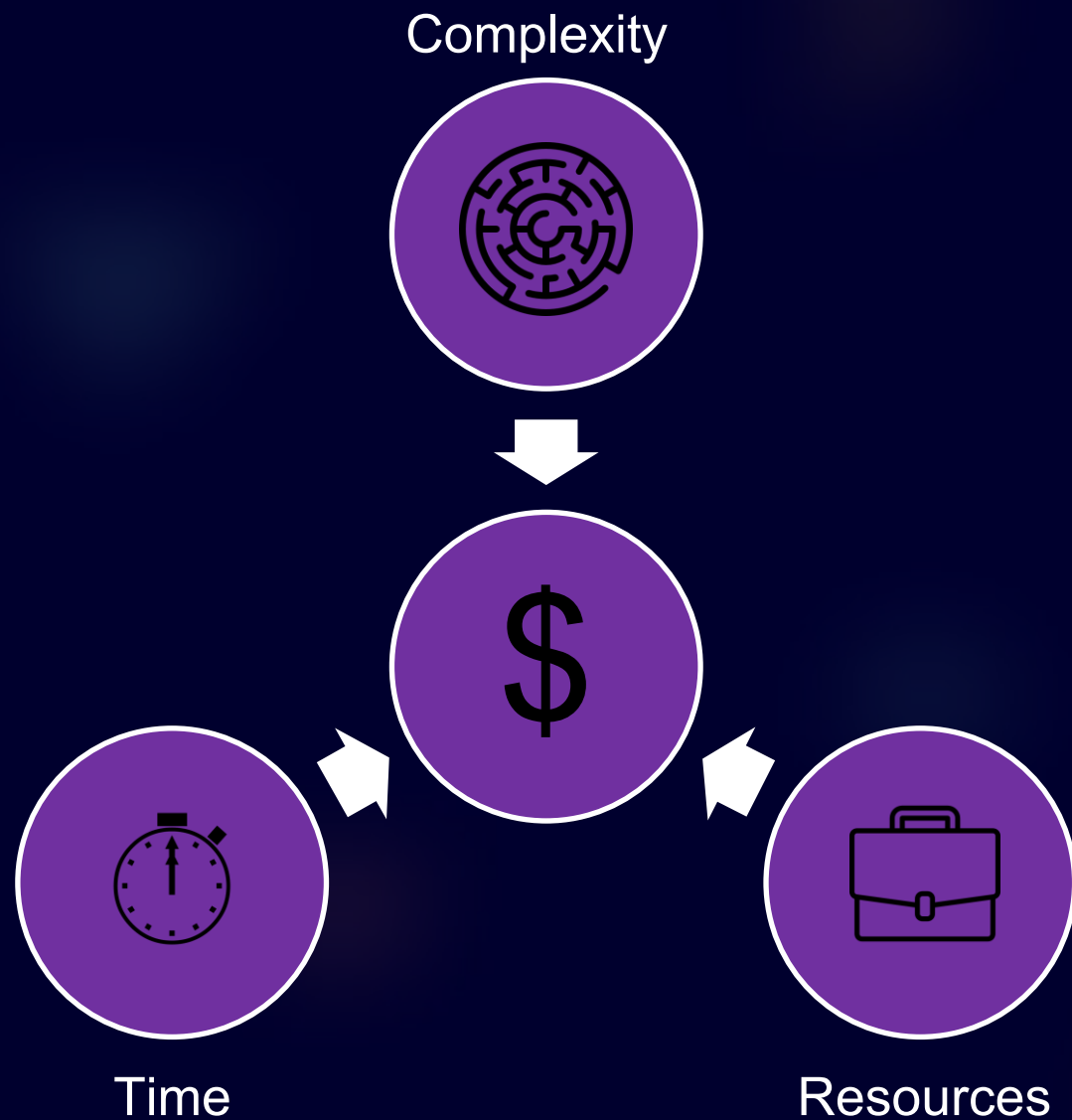
Does the client provide the necessary infrastructure?

Yes

No

\$5000/week/engenieer

\$7000/week/engenieer



Five-Year Financial Plan

Year 1	
Expenses	
HR	
Founders' salaries	\$100.000,00
Junior Engineers	\$0,00
Engineers	\$0,00
Marketing-and-Sales VP	\$0,00
EDA/CAD costs	
Cadence	\$75.000,00
Siemens	\$75.000,00
Accounting & Legal (2% Previous Expenses)	\$5.000,00
Management / Office (10% Previous Expenses)	\$25.500,00
Travelling/accomodation (Previous Expenses)	\$2.000,00
Others (consumibles)	\$2.000,00
Total Expenses	\$284.500,00
Income	
	Seed capital
Venture Capital	\$300.000,00
Other Sales	\$240.000,00
Total Income	\$540.000,00
Profit's Gross Margin	\$255.500,00
Taxes (21%)	\$50.400,00
Net profit after tax (NPAT)	\$205.100,00
Company cash	\$205.100,00
	ASSUMED
Company Valuation (estimated):	\$1.000.000,00
% of the company sold to VCs	30,0%

Five-Year Financial Plan

	Year 1	Year 2
Expenses		
HR		
Founders' salaries	\$100.000,00	\$100.000,00
Junior Engineers	\$0,00	\$0,00
Engineers	\$0,00	\$60.000,00
Marketing-and-Sales VP	\$0,00	\$70.000,00
EDA/CAD costs		
Cadence	\$75.000,00	\$140.000,00
Siemens	\$75.000,00	\$150.000,00
Accounting & Legal (2% Previous Expenses)	\$5.000,00	\$10.400,00
Management / Office (10% Previous Expenses)	\$25.500,00	\$53.040,00
Travelling/accomodation (Previous Expenses)	\$2.000,00	\$4.600,00
Others (consumibles)	\$2.000,00	\$4.000,00
Total Expenses	\$284.500,00	\$592.040,00
Income		
	Seed capital	Round #1
Venture Capital	\$300.000,00	\$300.000,00
Other Sales	\$240.000,00	\$360.000,00
Total Income	\$540.000,00	\$660.000,00
Profit's Gross Margin	\$255.500,00	\$67.960,00
Taxes (21%)	\$50.400,00	\$14.271,60
Net profit after tax (NPAT)	\$205.100,00	\$53.688,40
Company cash	\$205.100,00	\$258.788,40
	ASSUMED	=+6 x sales
Company Valuation (estimated):	\$1.000.000,00	\$3.160.000,00
% of the company sold to VCs	30,0%	39,5%

Five-Year Financial Plan

	Year 1	Year 2	Year 3
Expenses			
HR			
Founders' salaries	\$100.000,00	\$100.000,00	\$100.000,00
Junior Engineers	\$0,00	\$0,00	\$0,00
Engineers	\$0,00	\$60.000,00	\$60.000,00
Marketing-and-Sales VP	\$0,00	\$70.000,00	\$70.000,00
EDA/CAD costs			
Cadence	\$75.000,00	\$140.000,00	\$140.000,00
Siemens	\$75.000,00	\$150.000,00	\$150.000,00
Accounting & Legal (2% Previous Expenses)	\$5.000,00	\$10.400,00	\$10.400,00
Management / Office (10% Previous Expenses)	\$25.500,00	\$53.040,00	\$53.040,00
Travelling/accomodation (Previous Expenses)	\$2.000,00	\$4.600,00	\$4.600,00
Others (consumibles)	\$2.000,00	\$4.000,00	\$4.000,00
Total Expenses	\$284.500,00	\$592.040,00	\$592.040,00
Income			
	Seed capital	Round #1	
Venture Capital	\$300.000,00	\$300.000,00	\$0,00
Other Sales	\$240.000,00	\$360.000,00	\$600.000,00
Total Income	\$540.000,00	\$660.000,00	\$600.000,00
Profit's Gross Margin	\$255.500,00	\$67.960,00	\$7.960,00
Taxes (21%)	\$50.400,00	\$14.271,60	\$1.671,60
Net profit after tax (NPAT)	\$205.100,00	\$53.688,40	\$6.288,40
Company cash	\$205.100,00	\$258.788,40	\$265.076,80
	ASSUMED	=+6 x sales	=+5 x sales
Company Valuation (estimated):	\$1.000.000,00	\$3.160.000,00	\$6.160.000,00
% of the company sold to VCs	30,0%	39,5%	39,5%

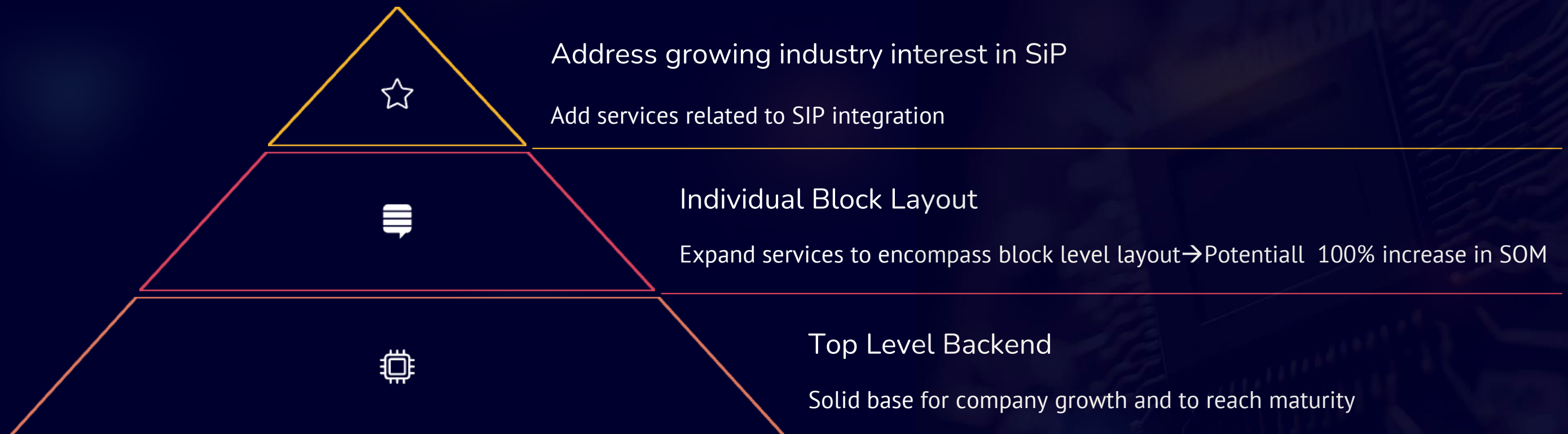
Five-Year Financial Plan

	Year 1	Year 2	Year 3	Year 4
Expenses				
HR				
Founders' salaries	\$100.000,00	\$100.000,00	\$100.000,00	\$100.000,00
Junior Engineers	\$0,00	\$0,00	\$0,00	\$80.000,00
Engineers	\$0,00	\$60.000,00	\$60.000,00	\$60.000,00
Marketing-and-Sales VP	\$0,00	\$70.000,00	\$70.000,00	\$70.000,00
EDA/CAD costs				
Cadence	\$75.000,00	\$140.000,00	\$140.000,00	\$280.000,00
Siemens	\$75.000,00	\$150.000,00	\$150.000,00	\$150.000,00
Accounting & Legal (2% Previous Expenses)	\$5.000,00	\$10.400,00	\$10.400,00	\$14.800,00
Management / Office (10% Previous Expenses)	\$25.500,00	\$53.040,00	\$53.040,00	\$75.480,00
Travelling/accomodation (Previous Expenses)	\$2.000,00	\$4.600,00	\$4.600,00	\$6.200,00
Others (consumibles)	\$2.000,00	\$4.000,00	\$4.000,00	\$4.000,00
Total Expenses	\$284.500,00	\$592.040,00	\$592.040,00	\$840.480,00
Income				
	Seed capital	Round #1		
Venture Capital	\$300.000,00	\$300.000,00	\$0,00	\$0,00
Other Sales	\$240.000,00	\$360.000,00	\$600.000,00	\$1.080.000,00
Total Income	\$540.000,00	\$660.000,00	\$600.000,00	\$1.080.000,00
Profit's Gross Margin	\$255.500,00	\$67.960,00	\$7.960,00	\$239.520,00
Taxes (21%)	\$50.400,00	\$14.271,60	\$1.671,60	\$50.299,20
Net profit after tax (NPAT)	\$205.100,00	\$53.688,40	\$6.288,40	\$189.220,80
Company cash	\$205.100,00	\$258.788,40	\$265.076,80	\$454.297,60
	ASSUMED	=+6 x sales	=+5 x sales	=+4 x sales
Company Valuation (estimated):	\$1.000.000,00	\$3.160.000,00	\$6.160.000,00	\$10.480.000,00
% of the company sold to VCs	30,0%	39,5%	39,5%	39,5%

Five-Year Financial Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Expenses					
HR					
Founders' salaries	\$100.000,00	\$100.000,00	\$100.000,00	\$100.000,00	\$300.000,00
Junior Engineers	\$0,00	\$0,00	\$0,00	\$80.000,00	\$80.000,00
Engineers	\$0,00	\$60.000,00	\$60.000,00	\$60.000,00	\$60.000,00
Marketing-and-Sales VP	\$0,00	\$70.000,00	\$70.000,00	\$70.000,00	\$70.000,00
EDA/CAD costs					
Cadence	\$75.000,00	\$140.000,00	\$140.000,00	\$280.000,00	\$280.000,00
Siemens	\$75.000,00	\$150.000,00	\$150.000,00	\$150.000,00	\$150.000,00
Accounting & Legal (2% Previous Expenses)	\$5.000,00	\$10.400,00	\$10.400,00	\$14.800,00	\$18.800,00
Management / Office (10% Previous Expenses)	\$25.500,00	\$53.040,00	\$53.040,00	\$75.480,00	\$95.880,00
Travelling/accomodation (Previous Expenses)	\$2.000,00	\$4.600,00	\$4.600,00	\$6.200,00	\$10.200,00
Others (consumibles)	\$2.000,00	\$4.000,00	\$4.000,00	\$4.000,00	\$4.000,00
Total Expenses	\$284.500,00	\$592.040,00	\$592.040,00	\$840.480,00	\$1.068.880,00
Income					
	Seed capital	Round #1			Round #2
Venture Capital	\$300.000,00	\$300.000,00	\$0,00	\$0,00	\$1.000.000,00
Other Sales	\$240.000,00	\$360.000,00	\$600.000,00	\$1.080.000,00	\$1.360.000,00
Total Income	\$540.000,00	\$660.000,00	\$600.000,00	\$1.080.000,00	\$2.360.000,00
Profit's Gross Margin	\$255.500,00	\$67.960,00	\$7.960,00	\$239.520,00	\$1.291.120,00
Taxes (21%)	\$50.400,00	\$14.271,60	\$1.671,60	\$50.299,20	\$271.135,20
Net profit after tax (NPAT)	\$205.100,00	\$53.688,40	\$6.288,40	\$189.220,80	\$1.019.984,80
Company cash	\$205.100,00	\$258.788,40	\$265.076,80	\$454.297,60	\$1.474.282,40
	ASSUMED	=+6 x sales	=+5 x sales	=+4 x sales	=+3 x sales
Company Valuation (estimated):	\$1.000.000,00	\$3.160.000,00	\$6.160.000,00	\$10.480.000,00	\$14.560.000,00
% of the company sold to VCs	30,0%	39,5%	39,5%	39,5%	46,4%

Vision for the Future





ChipSolver

Solutions for Microchip Physical Design

Where we help your product reach the market

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