



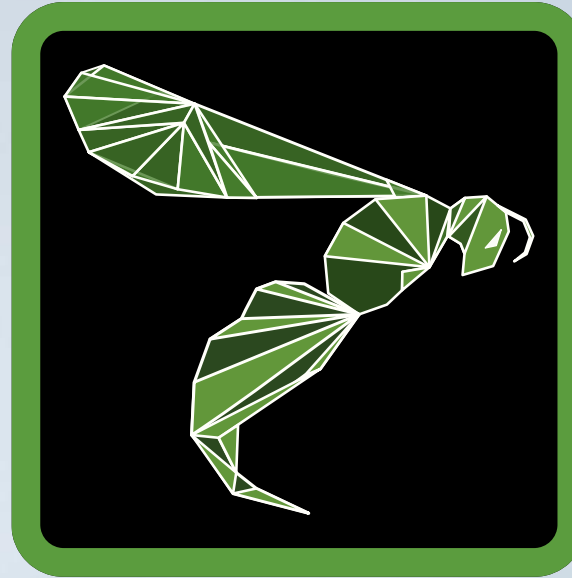
**Roger Espasa, Ph.D.,
Founder & CEO**

Semidynamics RISC-V IP Portfolio



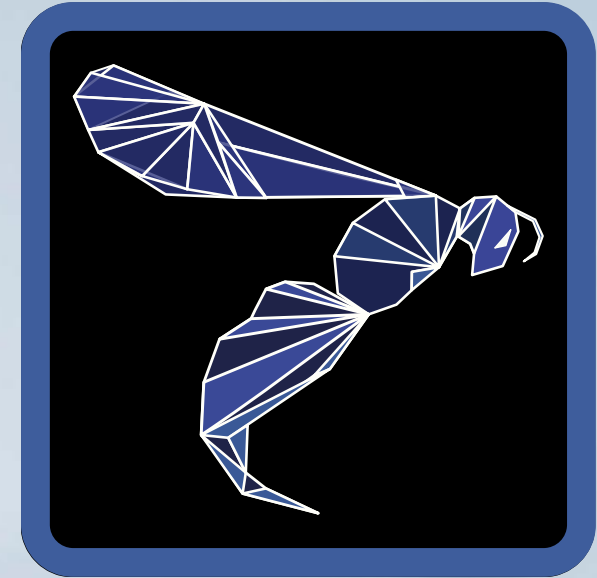
Avispado 222

2-wide **in-order** RISC-V64GCV
AXI and CHI



Atrevido 222

2-wide **out-of-order** RISC-V64GCV
AXI and CHI



VPU 822

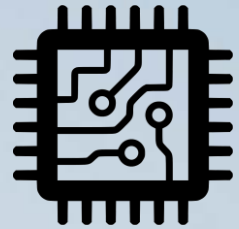
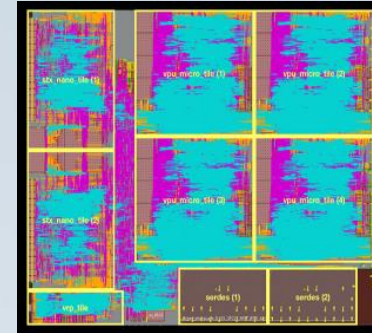
8-lane RVV1.0

- Founded July 2016, Located in Barcelona
- We offer extensive customization of our IP
- Now moving into FABLESS

Questions & Answers (1)

How does your company use existing competence centers?	
Could you imagine your company using the services of a competence center outside your country?	
What are the obstacles that currently prevent you from growing or innovating?	
How could the competence centers help your company in terms of providing training on semiconductors skills?	Seminars on tools, IP, protocols,...
What are the most pressing needs from your company and its partners?	Next Slides
How would you imagine the interaction between your company and your 'local' competence center to look like?	
What is your view on getting access to pilot lines and the design platform through the European network of competence centers?	

Fabless' Design Flow: Collaborations...



Idea

Exploration

R&D(Frontend)

R&D(Backend)

Foundry

Chip

Fabless

Fabless

Fabless

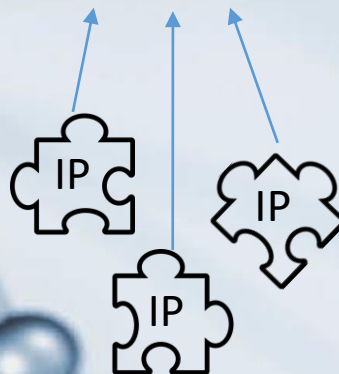
Fabless

Foundry

Fabless



Competence Center



Competence Center

Design House

Pilot Lines

Concrete Needs Examples

- Exploration NEEDS
 - What is the best node to be used ? Prices? (across TSMC, GF, Samsung, ...)
 - What Packaging Options are available?
- R&D Front End Needs
 - Sourcing IP : cost, origin, VIP
- R&D Back End Needs
 - Can Competence centers deliver TTM like Design Houses? At better cost?

A comment on Open-Source IP...

		Differentiation	
		Low	High
Value	Low		
	High		

A comment on Open-Source IP...

		Differentiation	
		Low	High
Value	Low	AXI, AMBA, I2C, I3C, SPI, JTAG,	x
	High	CXL, PCIe, USB, DDRx, LPDDRx Secure Boot	Core, AI unit, Custom units <your tech here>

These mostly provided commercially by non-EU companies
Ok for EU to fund Academia and Competence Centers to develop Open-Source version of these
Will help lower "barrier-of-entry" to EU Fabless

Fabless "Secret Sauce"
EU Asking to open-source this is a BIG MISTAKE (geo & business)
EU should fund this (Chips Act, etc...) without OSS

Questions & Answers (2)

<p>What are the most pressing needs from your company?</p>	<ul style="list-style-type: none"> • Low-cost IP for IOs • Partner for Advanced Packaging • Partner for Selecting optimal foundry
<p>How would you imagine the interaction between your company and your 'local' competence center to look like?</p>	<ul style="list-style-type: none"> • At Exploration stage • At Backend Design stage
<p>What is your view on getting access to pilot lines through the European network of competence centers?</p>	<ul style="list-style-type: none"> • Very positive, but need path to high volume
<p>What is your view on getting access to the design platform through the European network of competence centers?</p>	<ul style="list-style-type: none"> • Very positive • Concern on TTM and professional quality versus Design Houses

THANK YOU!