# An overview on IP offer and IP demand

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Design And Reuse

**IP SoC Grenoble 2019** 



# Outline

- History
- D&R Ecosystem
- The Future



# IP Concept: Why? Who? Which IP?

#### Why?

- •The world is speeding up??? Time to market pressure; Engineering (Knowledge) shortage
- •Talented engineering and knowledge available? Globalization?
- IP Concept born: Resource & Knowledge sharing/Reuse
- IP Business. NRE, Licensing fee, Maintenance, Royalty

Star IP
ARM, Amba Ecosystem

**Standard Centric**Interface IP

**Design Skill Centric**Analog, Embedded memory

Knowledge Centric
Al, Automotive, Video, Security

Alliance program

**Foundry** 

Fabless IC Vendor
Asic in Electronic Systems
AI, IoT, medical, mobile,
network ...



### D&R Ecosystem: 42.000 Registered members

D&R founded in 97 as a privately hold company with a mission:

Be the catalyst of IP Dissemination & IP business providing support to IP providers & IP consumers

- Hold Premier IP SoC Market Place www.design-reuse.com
  - displaying exhaustive list of resources available as Silicon IP and SoC (System on Chip) solutions
  - Facilitating the contact between provider and consumer
- Extended to <u>www.dr-embedded.com</u> (2012)
  - Dedicated to Application specific solutions (Automotive, AI, IoT, Security, ...)
- Extended to <u>www.design-reuse-china.com</u> (2016)
  - Dedicated to Chinese audience

#### Provides next generation Technology and Services based on IP Management Platform - IPMS™

- Web e-Catalog
- IP Management Enterprise Platform For IP providers and IP consumers
- Vendor tool Management



# Outline

- D&R Ecosystem
  - What is published
  - The audience
- Acquisition Flow
- The Future



### Native Design Reuse site: www.design-reuse.com

Exhaustive IP SoC list – No selection – Open upload Google-like Search - Emphasis on maturity on specific Target Process. 80 000 unique visitors per month (Google statistics)





### Companion Site for Soc solution: www.dr-embedded.com

List of Selected Soc Solutions in hot areas ( Automotive, AI, Security..)

Reserved to D&R partners

Marketing campaigns on specific solutions





#### Website dedicated to Chinese users

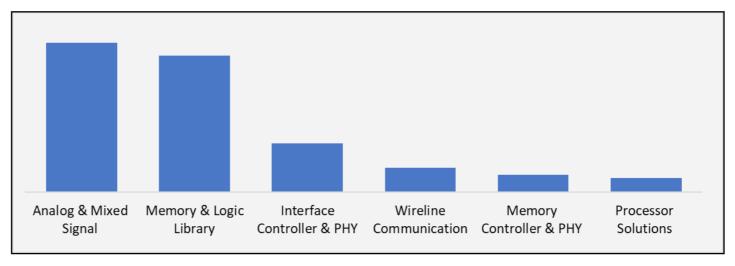
# BEST OF- Facilitate IP dissemination in China Weekly News Alert dedicated to Chinese Market



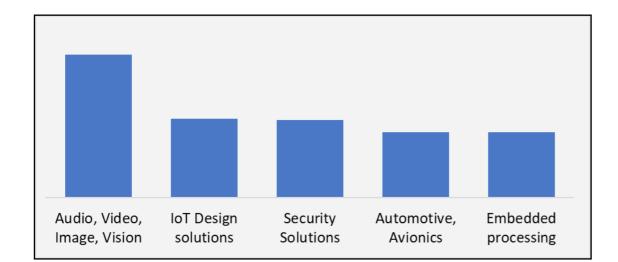


## What is published?

On www.design-reuse.com about 18 000 IP cores

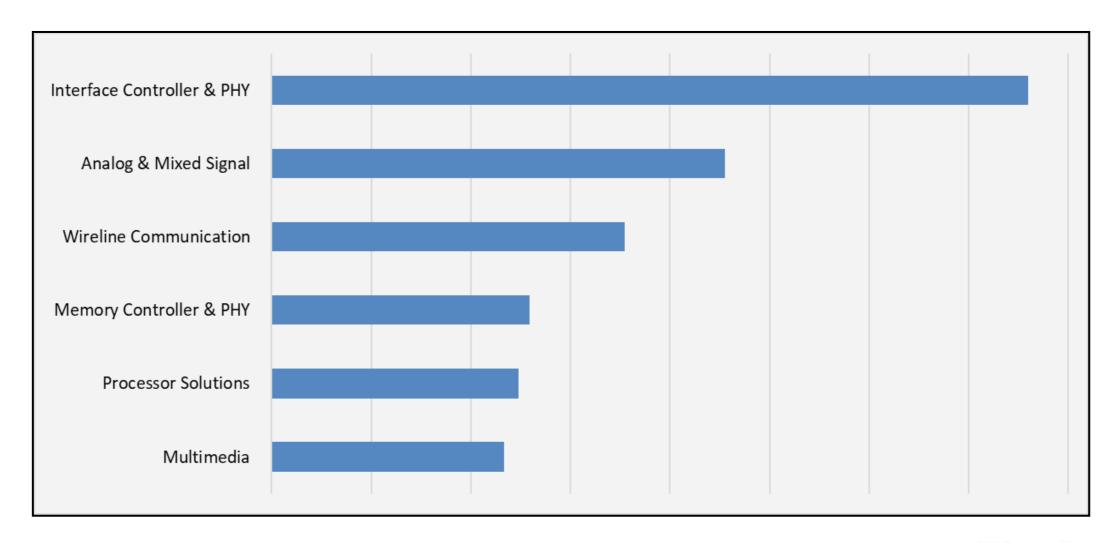


On www.design-reuse-embedded.com more than **1 200 Selected SoC Solutions** targeting dedicated application Vision, Audio, IoT, Embedded processing, Automotive ...



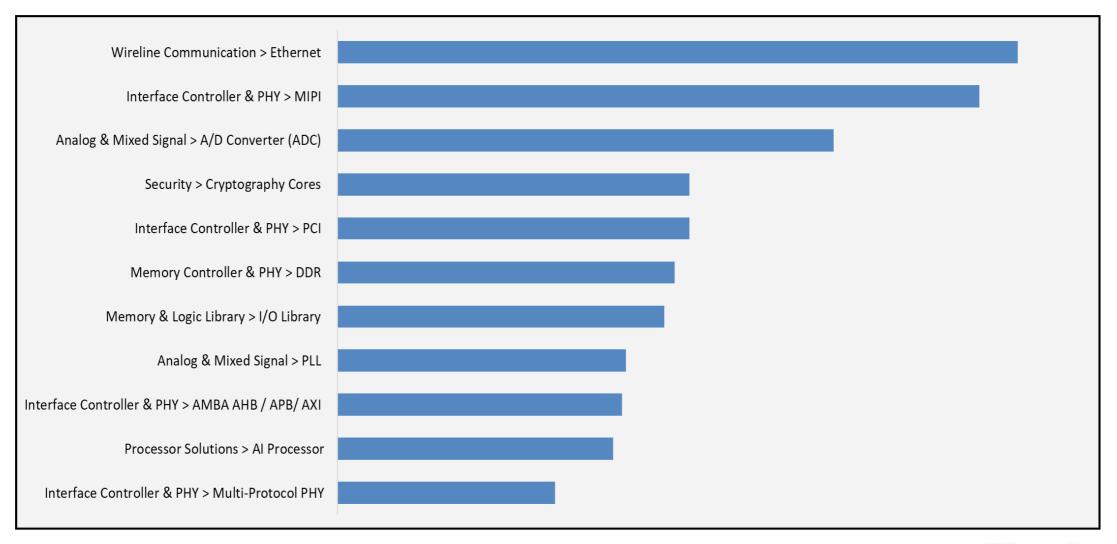


# Which categories of products are the most popular on D&R?



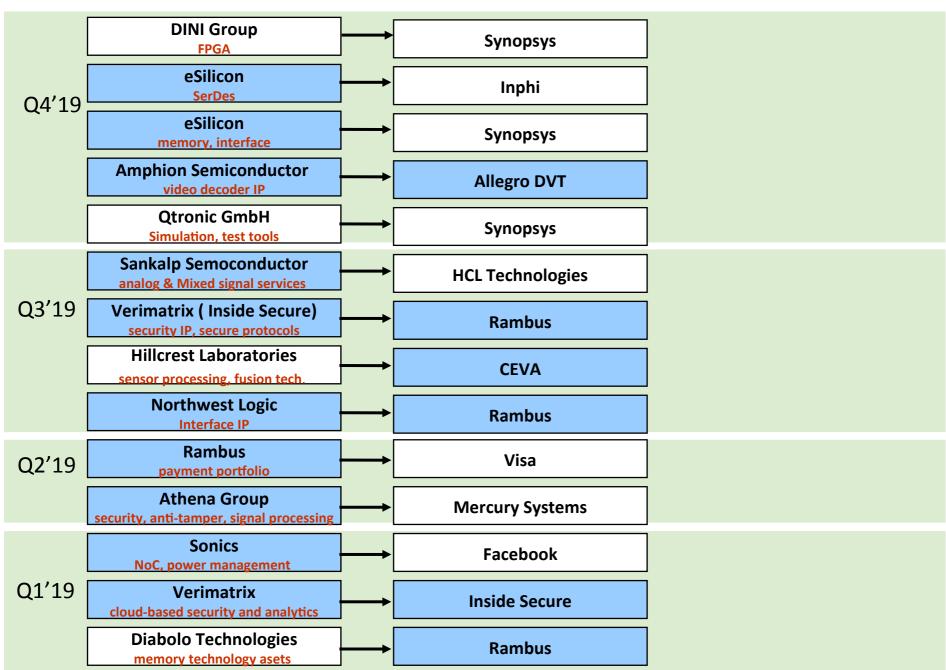


## Most popular sub categories



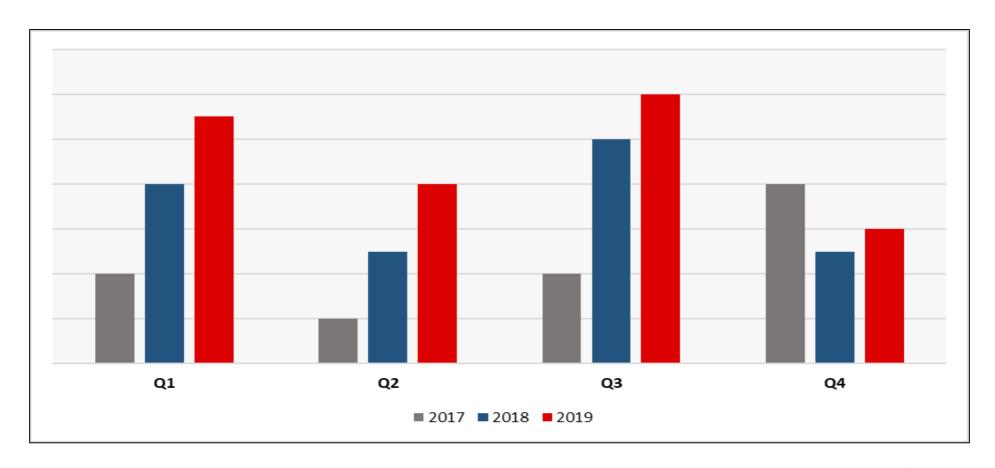


### Who provides ?200 partners -Hot Acquisitions in the D&R community in 2019



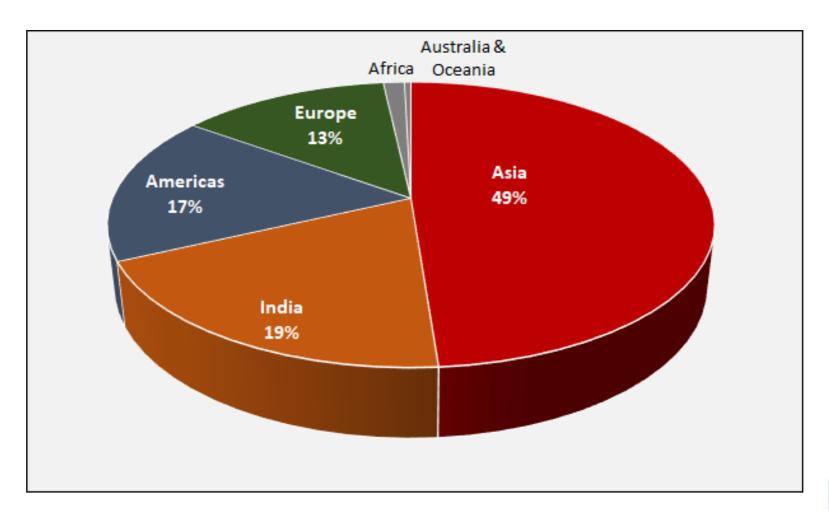


# Acceleration of Acquisitions 2017-2019





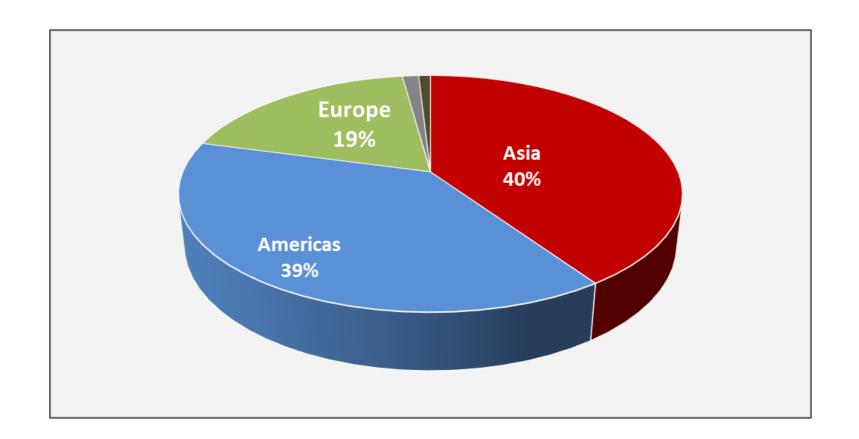
# Registered Users- D&R Community





## Visitor Traffic on www.design-reuse.com

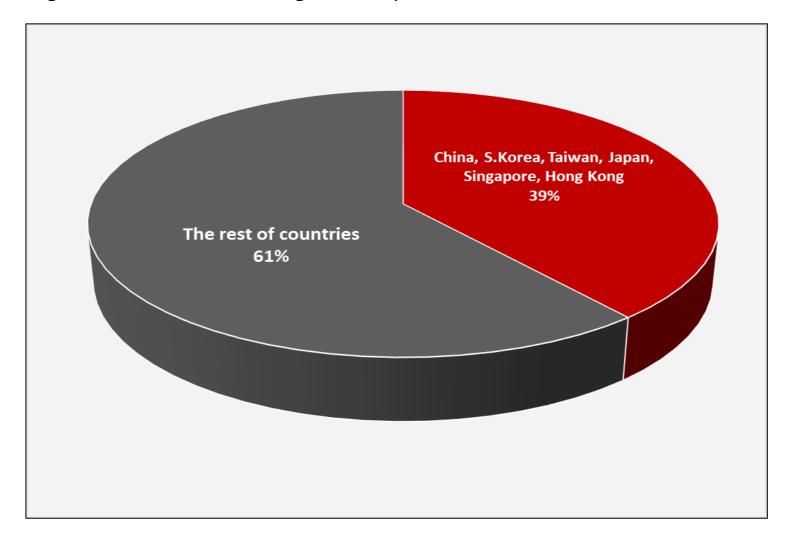
Google Statistics for www.design-reuse.com 80 000 unique visitors per month 250 000 page views per month





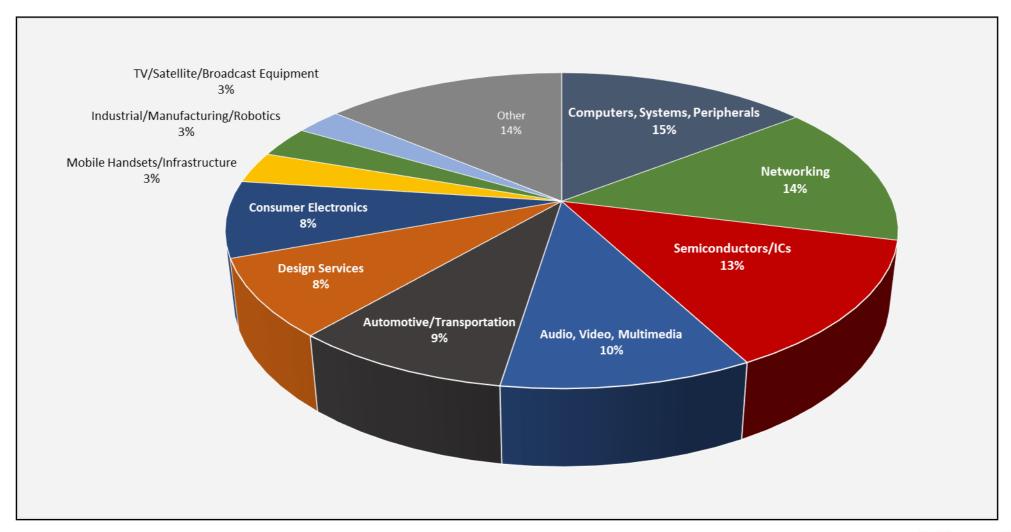
# Who really searches for IP?

### Identified registered user downloading IP description





# D&R Registered Users- End Product/ Service





### **D&R Marketing Services**

#### For IP Providers

- Web publicity (banners)
- •Lead service upon Search on D&R web sites
- Topic specific Campaigns

#### For IP consumers – Electronic System houses

- Search/Find IP on an exhaustive list of available resources
- News Alerts
- 2 English Newsletters sent to 27,000 subscribers
- 1 Mandarin Newsletter sent to 12,000 subscribers
- Events ( US, Europe, China).
- •In addition to the Search Engine
  - Wanted IP/ SoC/Solution service
  - Private Search



### Private and Confidential IP Search

### Major players in the Electronic System world

- Need
  - To make fast and well-informed business decisions...
  - To find promptly whether or not a specific licensable IP or System on Chip or a platform
- Requirements
  - Full confidentiality and full privacy
    - Full Flexibility for expressing the needs
    - Easy Dialog with the providers
  - In return
    - Selected Offers



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### And next?

- •Innovation and engineering skill is the seed of semiconductor industry "Wanted all over the world"
- •Trends
  - More SoC design opportunity (IoT, AI, machine learning, ...)
  - More need in emerging area
  - Consequently IP licensing and IP provider acquisition will warm up
- Better IP dissemination
  - New business model (open source) and new initiatives (RISC V)
  - Smart contract...
- •D&R mission: A worldwide IP ecosystem
  - Better IP dissemination .. IP democratization .. Easy contracting



# **And more: Announced To day**

D&R announces the opening of an IP Core Store to support Soft IP Cores sales to the Chinese Market



### **IP & Innovation Democratization**

#### For whom?

Access to the wordlwide market for "small" IP providers

#### Which IP?

Targeting soft IP as "proof of innovation" (validated on FPGA) Simple, direct download of soft IP with no wasted time

#### Which infrastructure?

"Easy-to-use" IP purchase center Simple purchase track

#### Which Market?

Chinese Customers (growing market)
Safe environment within the D&R IP ecosystem

