# PVP a Parallel Video coProcessor

## France Telecom CNET

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a Parallel Video Processor

# **Application background**

Telecom company and TV broadcaster

- contribution to standardization comittees
- building real time prototypes (multimedia, digital TV encoders, HDTV)

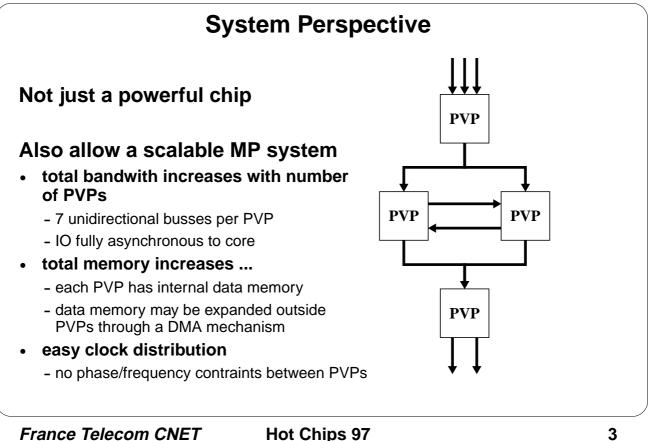
## Many advanced ASICs designed for these environments

- filters
- 8K FFT, DVBird chips

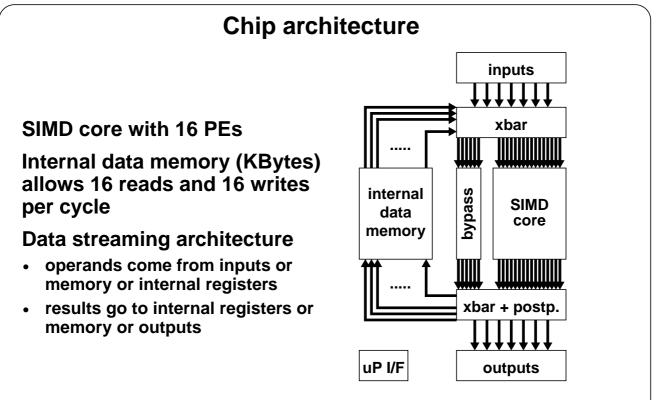
## Looking for a "generic" component for video

- programmable
- allowing easy system integration

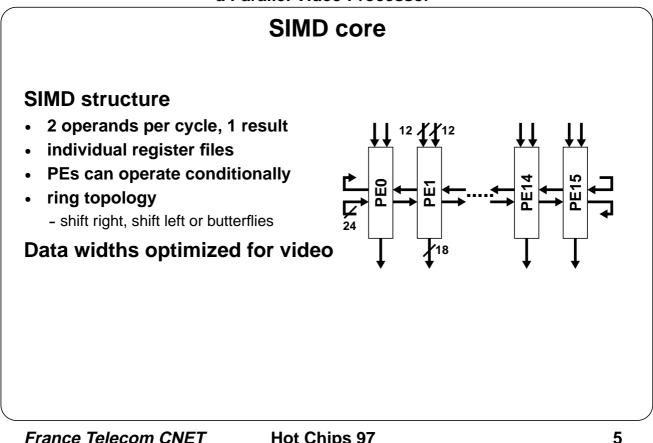




### a Parallel Video Processor

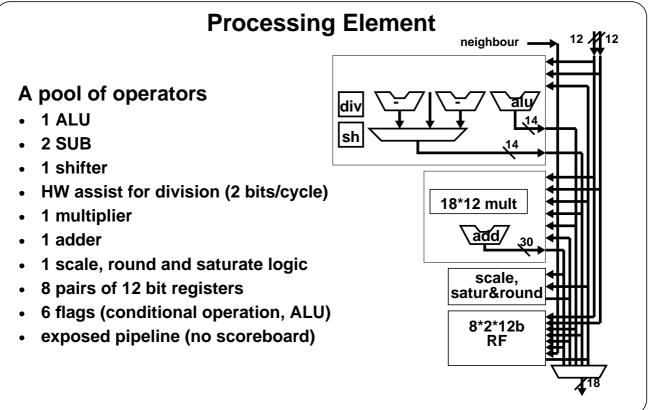


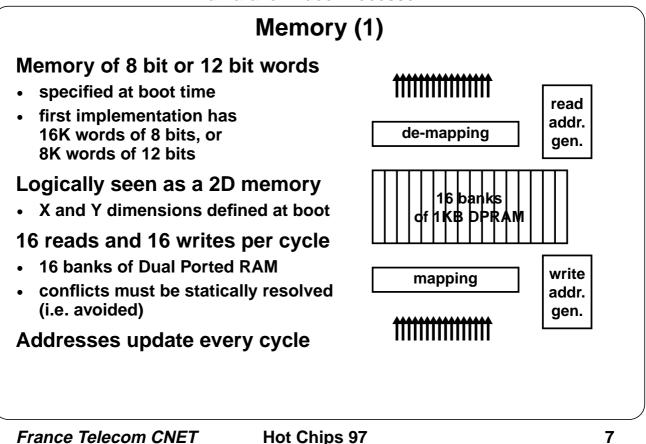




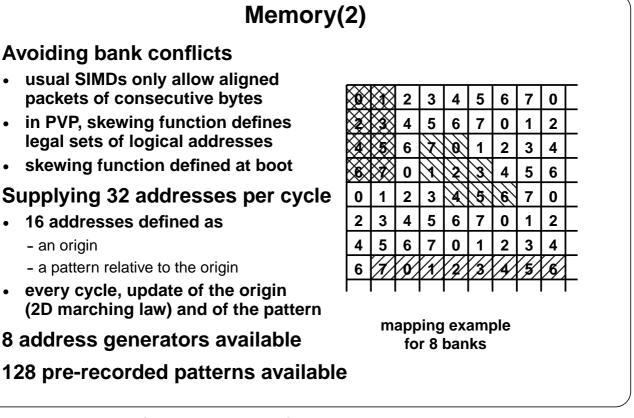
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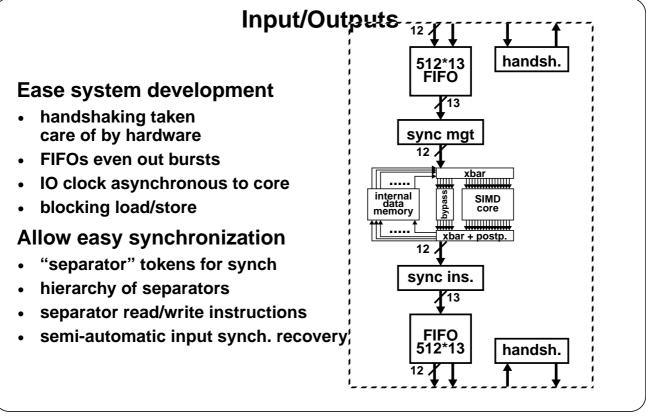
#### a Parallel Video Processor





#### a Parallel Video Processor

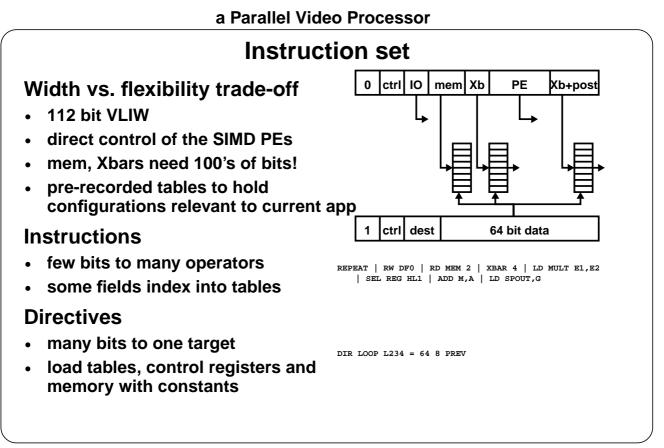


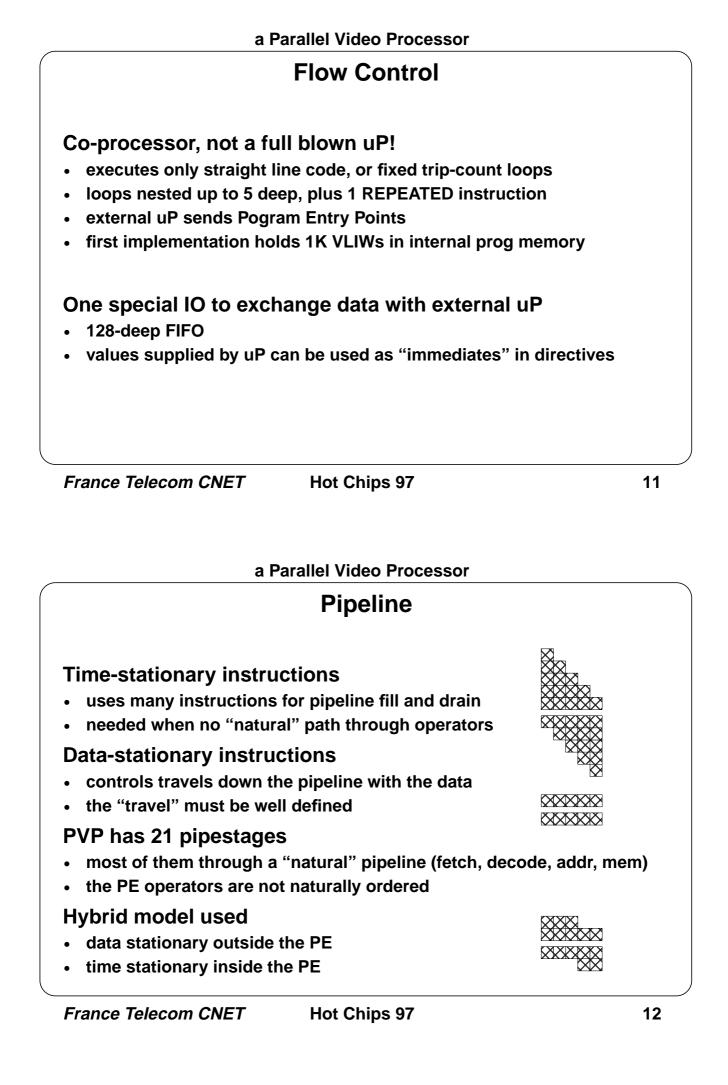


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## Conclusions

First implementation under way (July 97)

- 0.5 um 3.3V, 70 MHz
- 8 PEs
- 700 MB/s IO
- 3 GOPS

Next implementation 0.25 um early 98

Good flexibility/performance trade-off

Easy prototyping of algorithms/applications

New application fields (xDSL)

**Open for collaboration/licensing** 

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