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# Short update on FEC lab and packaging process status

Hamburg-CMS Tracker Upgrade Meeting - Phase I  
22 Feb 2013

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# Phone meeting with Pac Tech clarified present and future processes

## TOPICS

Sample introduction (analogROC wafer, VTT dummies, Sensor wafers)

Time line for present orders

FEC will visit all process steps during this setup phase

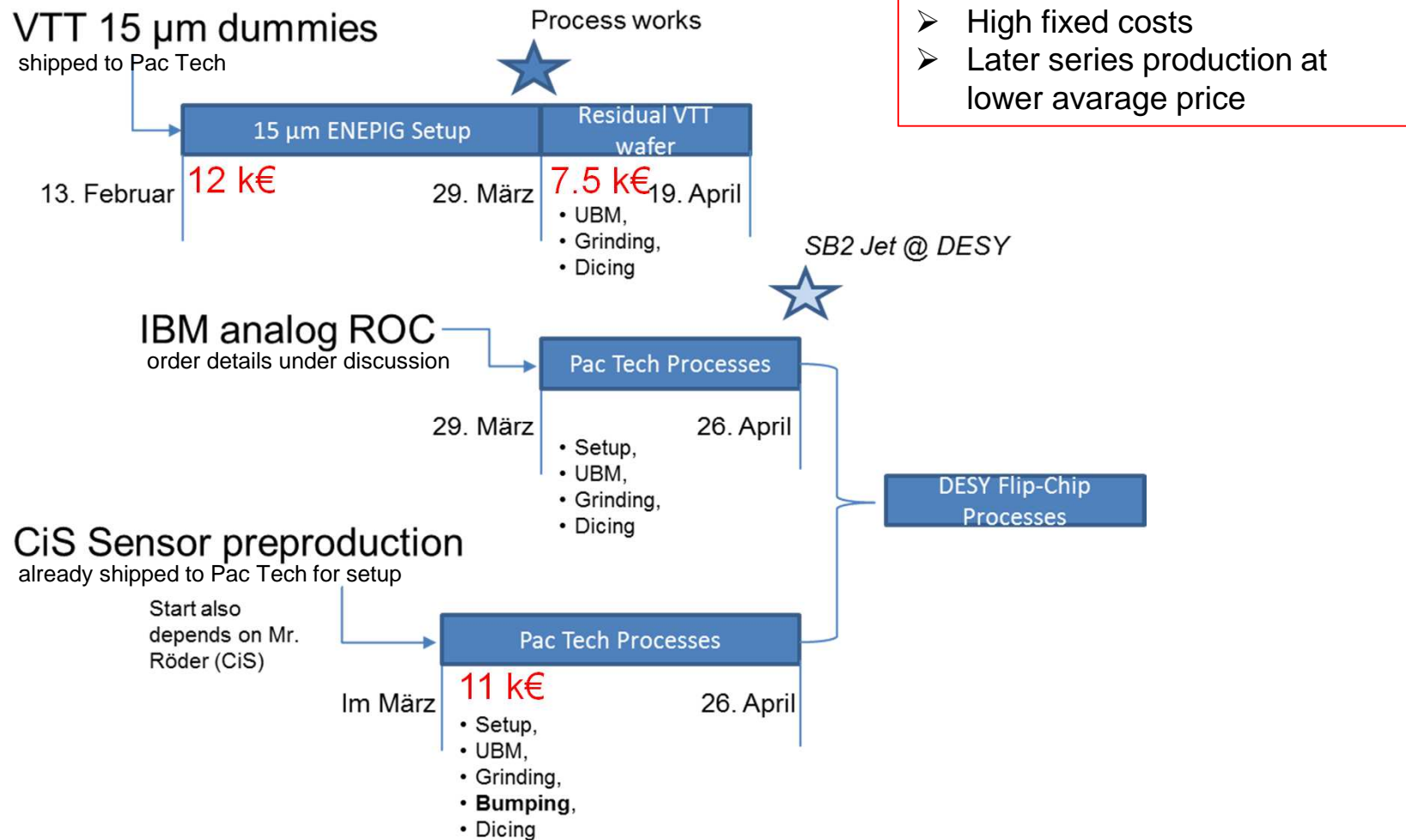
Laser marking of ROC backside possible

Discussion started on

- How to define correctly singulation according to pick map?
- How laser marks could look like?
- When and how is Pac Tech expected to process for BPIX production in the long term?

# Several orders out for Pac Tech processes

## JOINTLY AGREED TIME LINE



# FEC lab is under construction for the cleanroom and packaging installation

PICTURES FROM THE CONSTRUCTION SITE



Emergency exit  
now is main  
entrance

Curtain to protect  
the office from the  
dirt in the lab ;-)

New air  
cooling unit



Lab storage  
is „sealed“



Foil protects other lab  
space from dirt and  
reconstructed lab space  
from the bright Hamburg  
sunlight

