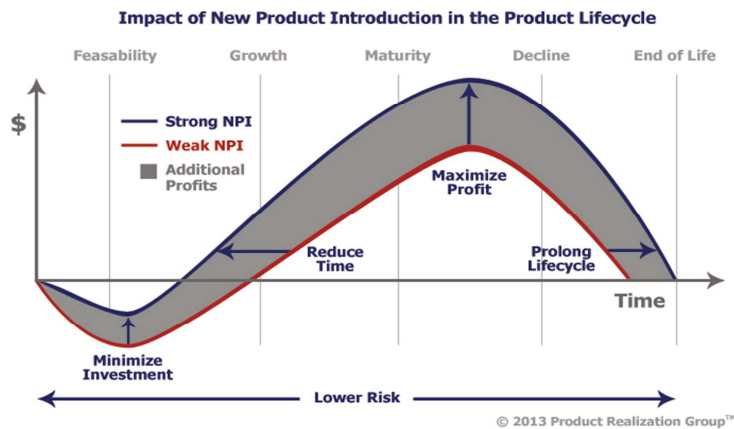


## Collaborative design in the digital era

### Increased complexity - Reduced Time to Market

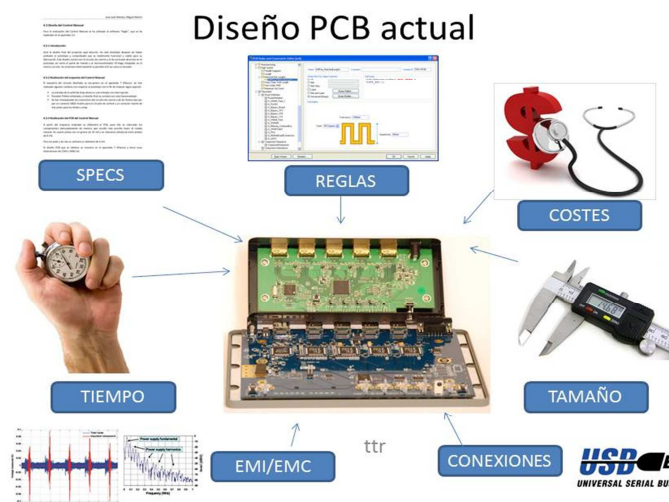
The placing on the market of the current electronic products demands a very short time. The impact on the benefits of "the time to market" in the launch of the products is enormous. Also if there is a problem that is detected when entering in manufacturing or once the product is launched, fixing impact is extremely costly.



A Company that does everything internally is already history. Subcontracting is part of the process. In any design there are Subcontractors who are involved in the development of the project and there are numerous interactions. Electronics, Mechanics, SW,HW,... all the disciplines interact , designs are live until last minute, and all **CHANGES** should be managed

Today's complex electronics designs require multiple engineering disciplines to work together to deliver an integrated product.

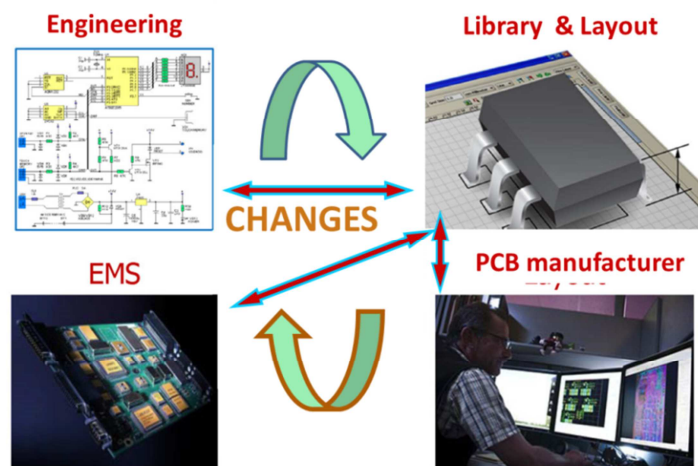
The key is to think from the beginning not only on the functionality, and connect all the groups to get the Best solution. Engineering, Layouters, Assembly, Manufacturing , Component providers ,Purchasing, **a lot of people is involved simultaneously in a Design**



Thus the challenge of PCB design is the complexity of the design itself and the Management of Changes, trying to avoid development efforts and time to rebuild any part .

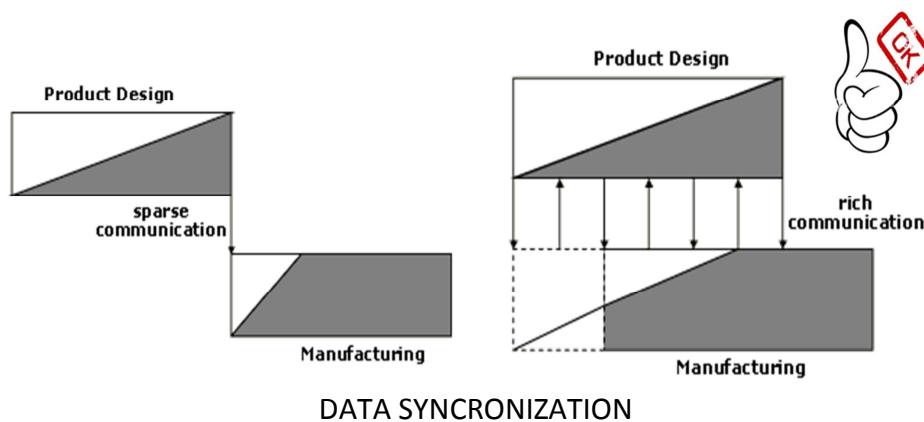
### COLLABORATIVE DESIGN

“The Right Data at the Right Time to the Right People “ . Get the right last mechanical review, or the right BOM information, is critical to managing the success of a new product. We need direct integration with the ECAD design environments to extract relevant data that will enable collaboration, increase visibility and drive better product decisions.



If an engineering area service is outsourced, continuous communication with the engineers seem lost. This can be a problem if we don't receive the appropriate feedback, questions or alerts that are of great value to be able to perform the service and increase the security in our company. It is therefore essential to get the best ways to **COMMUNICATE**, to agree on work reviews in the process flow , and set the appropriate stop and go on the critical steps.

**Taking care of Data Communication, shortens the design time .**



Collaborative design through shared data, improved communication and automation. can deliver their products to market faster, with higher quality, and at a lower cost. In CIDEIN we know , and we made daily ftps updates to **synchronize the database**, and use **sharing desktop tools** to show and discuss with the engineer the possible

difficulties of the design, as it progresses. In this way you can participate in the design by contributing your own vision, product knowledge and supervising online ,sharing ideas, move components, as if you were side to side , on line.

**The PCB layout is one of the easiest phases to subcontract and one of the most efficient .**

Engineers have less time, to develop new functionalities, more complex tests, small associate mechanics, and reduced consumption. Efficiency is measured with very short deadlines.

Currently, PCB design is a crucial aspect of any electronic development. The operating frequencies of these products are increasing, with the implications of EMI /EMC, and on the other side is also the density of electronic components, with miniaturized encapsulates and large number of pins in smaller sizes of plate. PCB becomes a component itself , and **layout requires strong attention and skills with the EDA tools to manage all requirements in multiple layers .**

So subcontracting this part of the design to specialists you will win time and money.



CIDEIN is a specialized company dedicated exclusively to the Layout of Printed Circuits Boards , with more than 25 years of existence and experience in all fields of design.

We help engineers to win time to do other things, and to advance the delivery of the prototypes.

We collaborate with the Engineering Department in the last step to the manufacture of the circuit, to achieve an optimal result



**Founded 1988**

Web site : <http://www.cidein.com>