High Efficiency Solutions.



# Recreating the craftsmen approach in an industrial context

Walter Bessega 6th March 2013



# Our products







## Our applications



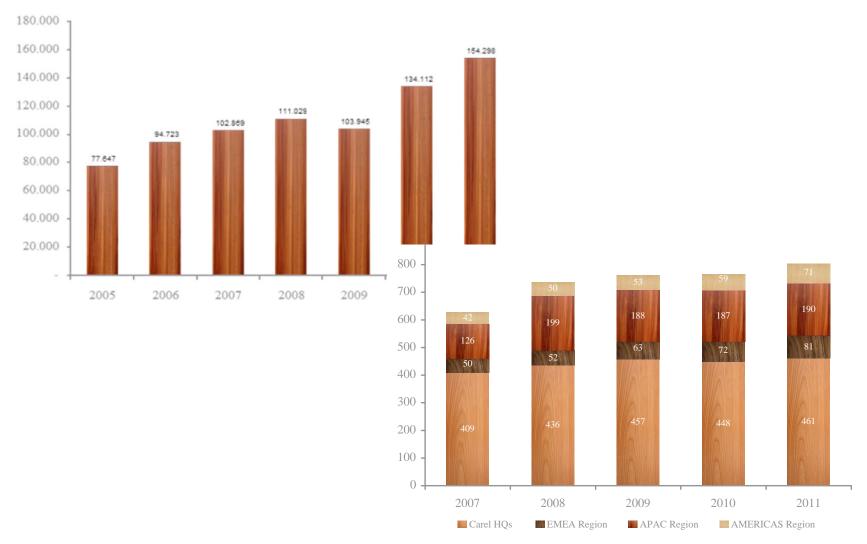








# Turnover (M€) & People



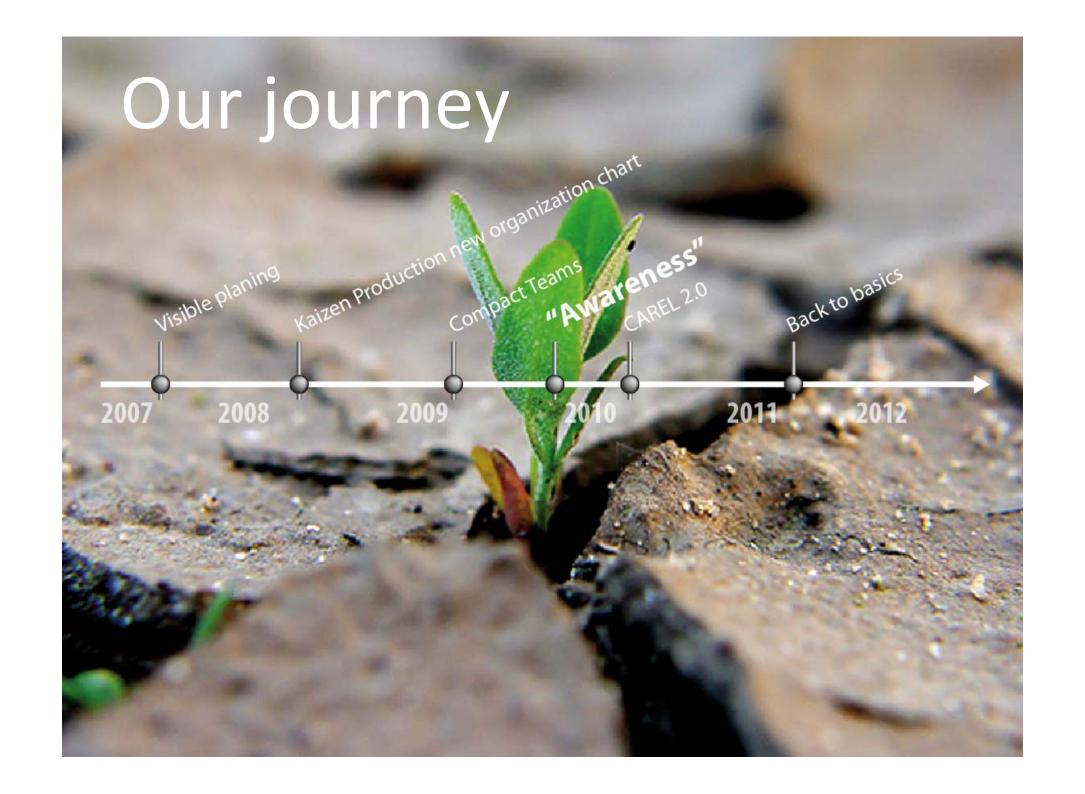




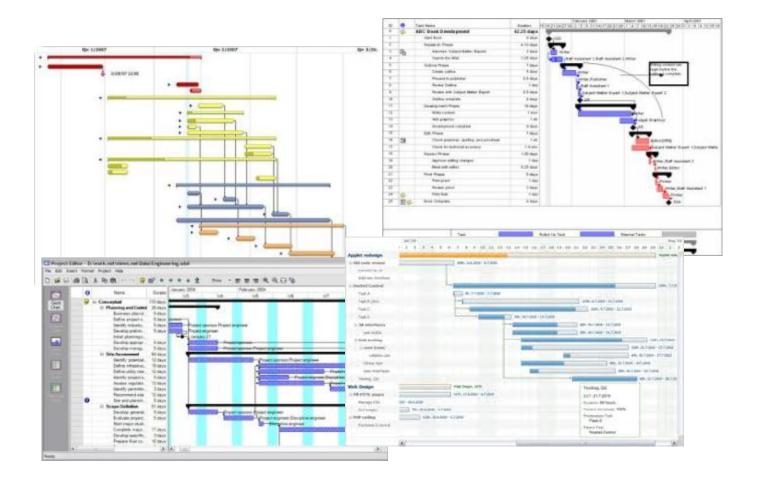


# Our presence





#### Once upon a time...









### Our problem Our solution

Role vs Goal
Partial responsibility
Problems didn't come up

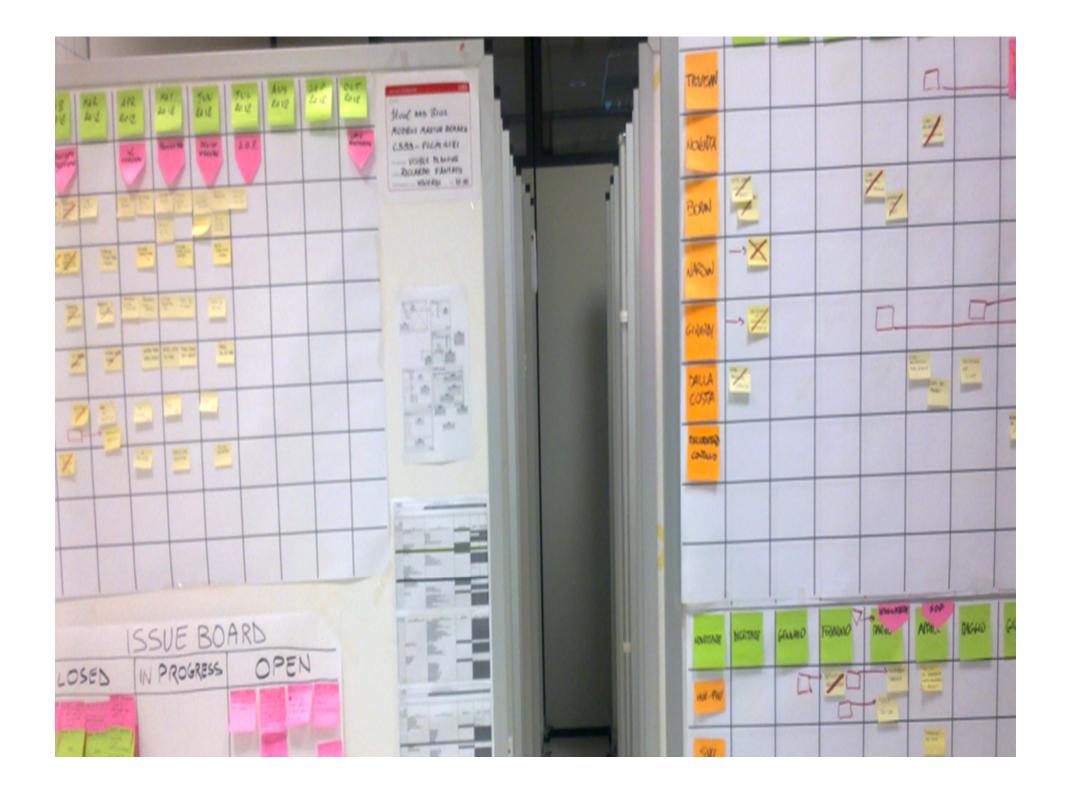












#### Our results

... from Project Management to Visual Management ...

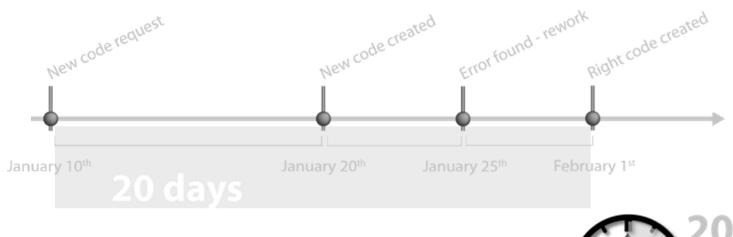
People talk to each other Anticipating problems

But...









value added time



Quality issues and rework
Results not aligned with expectations
Long time to market and project delays









Up to 20 people on project execution





Name	Time	Cruss	
Name	Time	Sum	
Paolo M.	504	504	19%
Gian L.	487	991	37%
Umberto B.	466	1457	55%
Alberto B.	319	1776	66%
Stefano C.	257	2033	76%
<b>Luca в.</b>	240	ZZ/3	85%
Francesco N.	214	2487	93%
Carlo V.	74	2561	96%
Giuseppe V.	60	2621	98%
Ivan F.	24	2645	99%
Giuseppe D.	6	2651	99%
Francesco C.	6	2657	99%
Alfredo I.	4	2661	100%
Davide M.	3	2664	100%
Davide C.	2	2666	100%
Giuseppe F.	2	2668	100%
Federico G.	2	2670	100%
Gianluca N.	1	2671	100%
Carlo B.	1	2672	100%

5/20 did most of the work Contribution of other 15...

- irrelevant as workload
- but crucial as skills





### Reality ≠ Perception



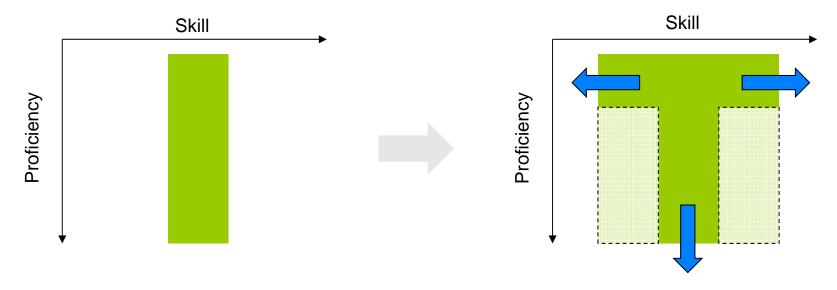
We are an high tech company
but most of daily activities are easy
Complex activities are only more «salient»







### «T shape» knowledge



Ask to move outside specialization area (cross-functional skills) We continue to invest on specialization (tech excellence and self-awareness)

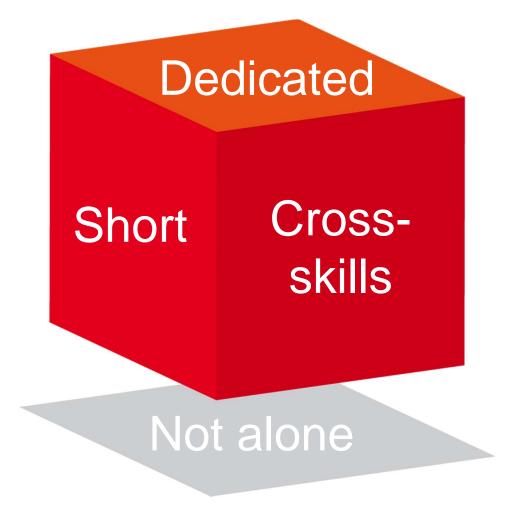
Competence centers provide knowledge, standards and support







#### Compact teams









#### "Process and people centric" results

Zero waiting time for activities done by external people

Si azzerano molti dei tempi di attesa per tutte quelle attiviti che nei Team

No more meetings – quick decisions (all in the same office)

People can substitute each other the field by all team members – people knows what others are doing

Strong reduction of form filling and emailing in the project

Easier exchange of skills between people

Strong reduction of task switching and priorities change easy working climate

Less detailed specifications, rapid cycles and more experience on the field by all team members

Everybody know the project goals and are involved from the beginning to the end → more motivation, more commitment, more fun







We are learning that most of the men of marketing, engineering, procurement and production have skills much larger than

- 1) have ever thought to have
- 2) have never admitted and
- 3) has ever been allowed to use

When a small team is **asked simply to "do"**, we have always found that each of them suddenly discover that is able to cover a range of tasks more extensive than he has ever been allowed to do until then.

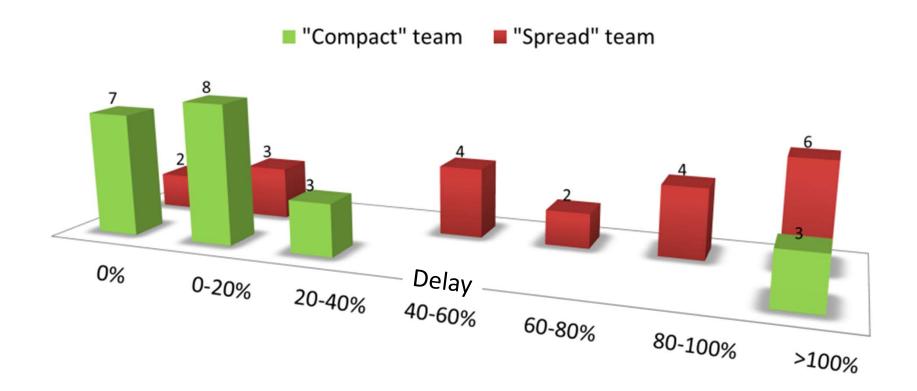
They do **good work and have fun**.







#### «Business centric» results



Project delay reduction (from 60% to 20%)







#### What we have now

```
Small team of multifunctional people ...
... talking each other ...
... sharing knowledge and working for goals ...
... anticipating problems ...
... with enterprise-wide approach
```

- → like small craftsman companies but in an industrial context (good quality, low costs and good service)
- → Involvement and commitment
- → We are doing the same on production lines







### What workers are doing



Hourly line scheduling, collecting results, classifying problems, creating Pareto's chart

All with realtime update and simply hand written by workers (no visual boards by Quality or Lean Office)









Priority management and PDCA problem solving Simply hand written by workers





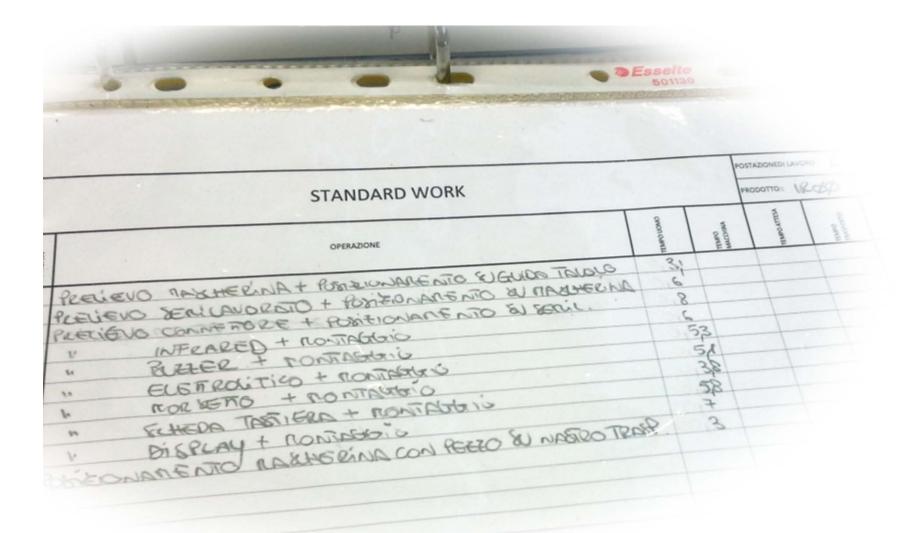


Demand management and Daily planning
All with realtime update and simply hand written by workers
(no scheduling by central offices)









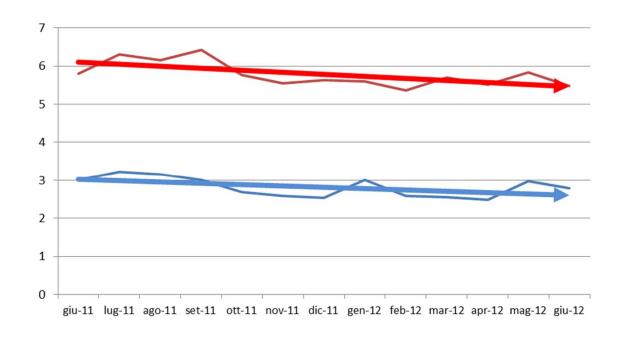
Autonomous line balancing
Simply hand written by workers
(they know how to optimize, and why, their own lines)







#### "Business centric" results



Production invested time for continuous improvement = 2.5%Cost reduction by c.i. = 9 - 13% (+ projects)







### We are trying...

to offer workers a job content significant and challenging, with a minimum of variety

to give workers the opportunity to learning continuously and by doing

to let them a space to set target, take decisions  $\rightarrow$  "their own space"

to let workers to know what they are doing and why







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