

Behind Project Purple

There is much to learn from the iPhone – the most successful project in tech history, writes **Antonio Nieto-Rodriguez**

With day-to-day operations remorselessly being taken over by robots and artificial intelligence, projects are becoming the new norm for creating value and staying in business. Yet, organizations and governments increasingly struggle to deliver the potential benefits of their projects.

Several studies have tried to estimate the value destruction of this shortcoming. A survey of 300 chief information officers in the UK and the US calculated that businesses waste £37 billion per year on failed agile IT projects. Research by *The Economist* and the Project Management Institute found that every 20 seconds, \$1 million is wasted due to poor project performance. That's nearly \$2 trillion every year – equivalent to the GDP of Brazil.

I have spent years analysing the mechanics of successful and less successful projects, and have spent 20 years working in the frontline of projects. I have discovered that, regardless of the project, the industry, the company, profit or non-profit, public or private sector, there are 12 variables that influence and determine project success.

From the hundreds of projects I have analysed, there are few that stand out. One of them is what in 2004 was codenamed Project

Purple, the creation of the iPhone. Since its debut in 2007 the iPhone has become both a cultural and economic phenomenon, replacing BlackBerry and Nokia as the most ubiquitous smartphone and turning the entire global telecoms market upside down. And this from a company with no previous significant experience in the mobile phone industry!

According to one estimate, Apple spent \$150 million developing the iPhone (excluding the cost of the ideation phase). That \$150 million certainly ranks Project Purple as one of the best investments ever. "There are very few products that have boosted the financials of a company in the way that the iPhone has for Apple," says Ian Fogg, head of mobile at research firm IHS. Apple sold 1.4 million iPhones in 2007 and more than 201 million units worldwide in 2016. In total, it has sold more than one billion iPhones worldwide from 2007 to 2016.

In the first quarter of 2017, iPhone sales accounted for more than 69% of Apple's total revenue, generating more than \$54 billion in revenues on an estimated profit margin of greater than 50%. In ten years, Apple's revenue grew from \$8 billion in 2004 to more than \$215 billion in 2016.

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Let's scrutinize Purple Project through the lens of some elements of the project success framework to better understand how it was seamlessly executed.

LESSON 1

EXPERIMENT

Try things out until you are ready to launch a formal project



Like most Apple success stories, the iPhone can trace its roots back to Steve Jobs. Shortly after the first iPod was released in 2002, Jobs began thinking about an Apple phone and, in 2005, he personally

negotiated a partnership with mobile network AT&T, then known as Cingular, to develop the product. Yet the project failed to get going. In fact, there were as many as five different phones or phone-related initiatives bubbling up at Apple by the middle of the 2000s — from tiny research endeavours to a flop partnership with Motorola on the ROKR phone (which some described as the first iTunes phone).

What is noteworthy is that Apple didn't launch a formal and full-scale project to develop the first concepts of the iPhone. The ideation phase was kept low-profile, with limited investments and small teams experimenting.

Most organizations have the bad habit of launching a full-blown project for every idea they generate, creating a vast quantity of projects which, most of the time, end up at a dead-end, wasting precious company resources.

LESSON 2

PROJECT SPONSOR

Find one that is engaged, dedicated, driving and inspiring



Numerous members of the Apple executive team tried, for several years, to convince Steve Jobs that producing a phone was a great idea. But Jobs was sceptical and rejected it many times. Linked to the previous point, Jobs'

attitude shows how an executive sponsor should behave: being a powerful source of inspiration, a fierce curator of good ideas, yet not afraid of rejecting the bad or half-baked ones.

Once Jobs' scepticism was overcome, he was fully engaged, and dedicated approximately 40% of his time to supervise and support the different

project teams. Executive sponsors are key to ensure that resources are allocated for transversal initiatives, that decisions are taken when problems arise, that executives stay aligned and the organization remains behind the strategic project. There is no area more important for project success that ongoing executive support. Yet, I come across many organizations in which every executive sponsors 10 to 20 strategic initiatives. This means that they dedicate less than one hour per month to overseeing them. This is a guarantee for project disaster.

LESSON 3

TIME

Realize the power of a stretched and fixed finish line, a frantic race to meet an impossible go-live date

The iPhone project was officially launched at



the end of 2004. More precisely, it was late on the evening of 7 November 2004, after receiving an email from vice president Michael Bell explaining why Apple should make the phone, that Steve Jobs

said: "Okay, I think we should go do it."

On 29 June 2007, at the annual Macworld trade show, the first iPhone was released. That is exactly two-and-a-half years to produce a revolutionary phone, the first smartphone, by a company that had not produced phones before.

The last months of the project, as Macworld approached, became a frantic race to get the iPhone ready for launch. Anniversaries were missed, holidays cancelled and family lives disrupted. And for what? "Sorry, that's classified information."

Project Purple is a great example of the power of establishing a fixed deadline, the pressure it creates on the team, ensuring everyone is 100% focused on the project, making them go the extra mile.

LESSON 4

HUMAN RESOURCES

Convene the most talented team, the best of the best, with full-time dedication



The project team was one of the most talented groups of individuals in recent history. The best engineers, the best programmers, the best designers were selected to join the team. And not

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part-time, one- or half-a-day-a-week, as most companies do with their strategic projects. The chosen people were fully discharged from all their duties and were assigned full-time to the project, effective immediately. Project Purple became their life.

"We're starting a new project," Scott Forstall, head of the iPhone software division, explained to potential team members. "It's so secret, I can't even tell you what that new project is. I cannot tell you who you will work for. What I can tell you is if you choose to accept this role, you're going to work harder than you ever have in your entire life. You're going to have to give up nights and weekends probably for a couple years as we make this product."

Forstall added that Jobs told him: "You can have anyone in the company in your team."

As with the technicians, Jobs decided to put the best leadership team together too. He began with the legendary Jony Ive, designer of the iPod and MacBook, putting him in charge of the look of the handset.

"It was clear that a lot of the best engineers from the best teams had been slurped over to this mysterious team," recalls Evan Doll, who was then a software engineer at Apple.

And their lives would never be the same – at least, not for the next two-and-a-half years. Not only would they be working overtime to produce the most influential piece of consumer technology of their generation, but they'd be doing little else. Their personal lives would disappear, and they wouldn't be able to talk about what they were working on.

LESSON 5

QUALITY Be obsessed with it



One of Apple's greatest strengths is that it makes its products look and feel easy to use. There was nothing easy about making the iPhone – its inventors say the process was often nerve-wracking.

Jobs wanted to see a demo of everything. Designers would often create mock-ups of a single design element – such as a button on the iPhone – up to 50 times until it met his stellar quality standards.

At several points throughout the project, when things were not going well and the quality of the iPhone was not reached, Steve Jobs gave the team an ultimatum: "Two weeks to show progress with the operating system, or have the project assigned to another group." Everybody knew that he was not kidding.

LESSON 6

RISK

Manage project risk proactively

"Steve wanted to do a phone, and he wanted to



do it as fast as he could,"
Richard Williamson,
an Apple director of
software, said. But which
phone? And how to
manage the risk of not
achieving the intent of
the project?

One of the high risks

was the fact that Apple had no experience in producing a phone. The learning curve could take many more years than initially planned. To address the development risks, the project team looked at the different options. They came up with two main possibilities: (a) transform the celebrated iPod into a phone (the easier path), or (b) transform the established Mac into a small touch-tablet that made calls.

The two phone projects were split into tracks, code-named P1 and P2, respectively. Both were top secret. P1 was the iPod phone. P2 was the still-experimental hybrid of multitouch technology and Mac software. Instead of choosing one of them and taking the risk of having made the wrong choice, they decided to work on both prototypes in parallel. This was a proactive way of mitigating one of the major risks of Project Purple.

The iPhone formula

If you are thinking of launching a strategic project, or are currently doing so, take note of these invaluable lessons from Steve Jobs:

- Push back on ideas until they are mature to launch a full-scale project
- 2 Dedicate at least 20% of your time to support the project
- 3 Set an ambitious goal with a clear fixed deadline
- Select the best talent, take them out of their full-time job, allow them to focus 100%
- Quality testing, iterations of the end product/solution should be an obsession

I guarantee that your chances of success will increase considerably. •

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