

L	Company purpose	
	Problem/solution	
111.	Why now	
IV.	Market size	
۷.	Competition	
VI.	Product	
VII.	Business Model	
VIII.	Team	
IX.	Strategy	
х.	Financials	
XI.	Swot analysis	

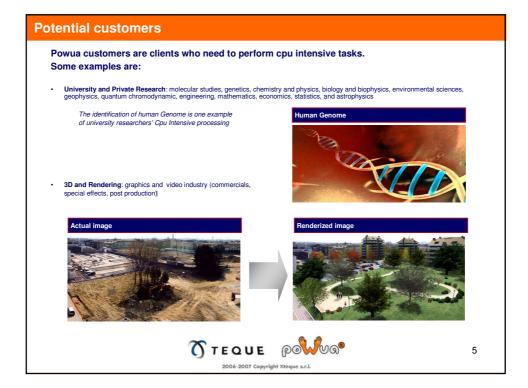




Table	e of contents	
I.	Company purpose	
П.	Problem/solution	
III.	Why now	
IV.	Market size	
v .	Competition	
VI.	Product	
VII.	Business Model	
VIII.	Team	
IX.	Strategy	
х.	Financials	
XI.	Swot analysis	
	TEQUE POWWO	7
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Why now

What are the uses for Supercomputers?

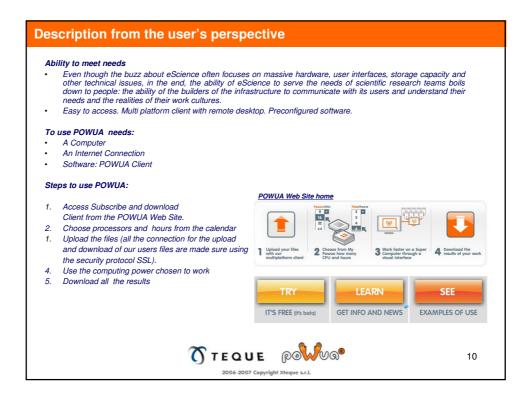
- Because of the extreme speed of todays supercomputers, it would seem that they would be everywhere and used for almost everything requiring a large capability for compute power
- However, it is important to remember that supercomputers are not universally superior and not always the most cost-effective tool. For many purposes, computers with more limited capability are as good, or better, and are likely to be easier to use. Even though they are not suitable for all purposes, super-computers have many varied uses and in todays world are an absolute necessity for many tasks. First used for cryptography and nuclear phyPOWUAs, supercomputers are quickly becoming indispensable to virtually every branch of science and engineering. Their ability to simulate all phyPOWUAaI phenomena provides a new scientific method that joins theory and experimentations. Firstence and experimentations in science and and experimentations. theory and experimentation. Future applications in science alone are immense and the potential is almost limitless. The hyperfast machines can model virtually any phenomena in the phyPOWUAal world that can be described with mathematical formulas from subatomic collisions, to the Earth's warming atmosphere, to quasars at the end of the universe.

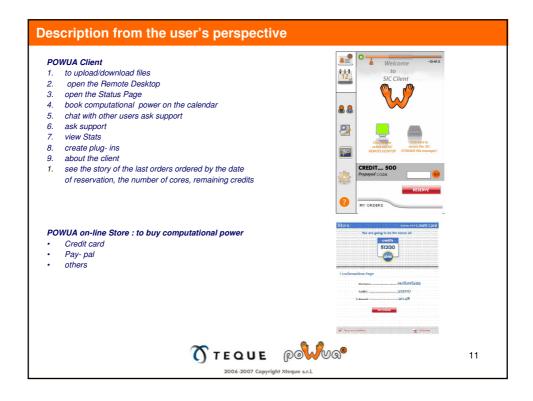
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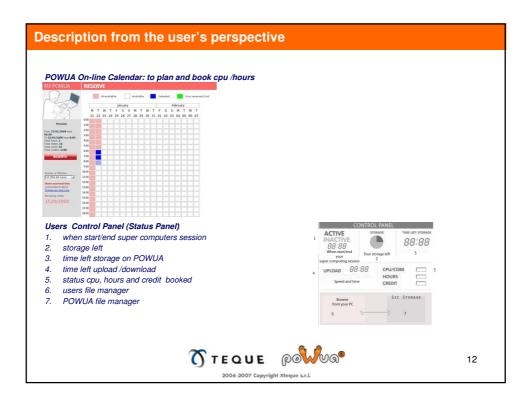
- POWUA mission is to allow a Super Computer to be used quickly, in anyplace and at reasonable costs. POWUA is a Super Computer that is accessible to the end user through a visual interface and via an Internet connection, a Open Source based Cluster, consisting of a set of computers operating in parallel, that allows the processing of operations requiring intensive use of computing power; this is all equipped with a visual interface that also supports 3D applications and is easy to use. Potential users are present worldwide: Public and private research centers, University professors and students, 3D professionals and amateurs, software developers, who with POWUA manage to obtain immediate access, at reasonable prices, to a very fast system.
- POWUA is a Open Source Cluster (a set of computers that operate in parallel to process operations that require intensive use of computing power) that, through a connection to an Internet site, allows the end user to access this technology and pay only for the time it is actually used.
- The POWUA user needs only to download a piece of software (multi-platform: Windows, Apple-Mac and Open The POWUA user needs only to download a piece of software (multi-piatrom: Windows, Apple-Mac and Open Source) that allows the uploading, processing and downloading of his/her work. This all takes place in a very simplified way without particular technical knowledge being necessary. At the user's request and after s/he has made the reservation and payment, a set of computers automatically configure to form a Super Computer and then a remote desktop appears on the user's video screen to allow the user, from wherever in the world s/he is, to be able to work on a computer that has considerably greater computing power than normal personal computers.



9







Expandability

POWUA has been designed and developed with expandability in mind: by using free software POWUA states its will to be open to changes and improvements:

- it is easy to install new softwares: the chosen operating system Debian Open Source provides repositories with thousands of software packages ready to be installed, and with the help of FAI (Fully Automated Installer), the deployment of a new software on all machines is a matter of a simple 'software update';
- in case of need of a greater computing power, new machines can be added in;
- at any time and be available in the booking schedule in a short time. The installation is managed by FAI and the configuration of the machine as a front end or node is made appropriately;
- storage capacity can be increased in every moment too, by registering new Lustre OSTs;
- operations needed to set up new services can be added at every step of cluster configuration;
- the POWUA Desktop can be customized on a per-user basis, to let the user find all his/her favorite tools and software programs quickly.

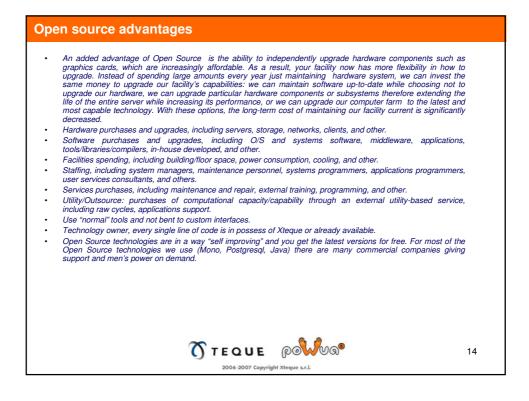
Why POWUA is based on Open Source

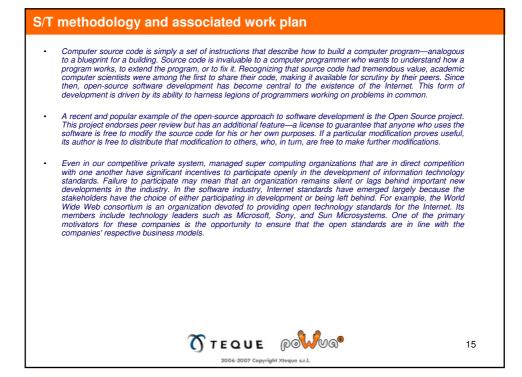
We chose to build POWUA on Open Source because it is an Open Source and for many other advantages: <u>Hardware flexibility</u>

- Computer technology jumps forward every year and few technologies have moved as fast as general purpose computing. In this environment, making the right decision about the platform is not always an easy choice. There are many compelling reasons why we use a Open Source solution including exceptional gains in performance and reduced cost of ownership.
- Proprietary hardware solutions offer little flexibility in when and how upgrade.
- When new hardware-dependent features are introduced, you must upgrade your hardware; there is no flexibility to
 enable you to install new software on your existing platform. In addition, the costs of the upgrades, as well as just
 maintaining the system, are generally higher. Is a significant hurdle in that switching to a next generation platform
 typically involves throwing out the entire system and having to learn an entirely new application.
- The cost of hardware support for specialized or proprietary hardware systems can be significant. Hardware
 maintenance costs for Open Source servers are much lower and can offer substantial support cost savings.

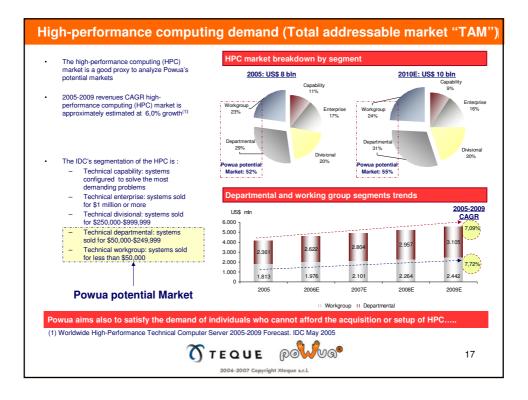


13





able	of contents			
I.	Company purpose			
II.	Problem/solution			
Ш.	Why now			
IV.	Market size			
٧.	Competition			
VI.	Product			
VII.	Business Model			
VIII.	Team			
IX.	Strategy			
х.	Financials			
XI.	Swot analysis			
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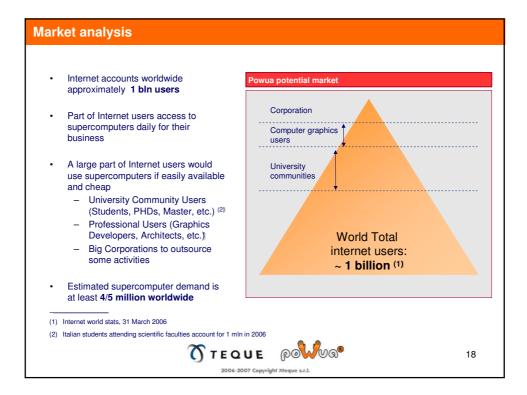


Table	e of contents	
I.	Company purpose	
п.	Problem/solution	
Ш.	Why now	
IV.	Market size	
۷.	Competition	
VI.	Product	
VII.	Business Model	
VIII.	Team	
IX.	Strategy	
х.	Financials	
XI.	Swot analysis	
		19
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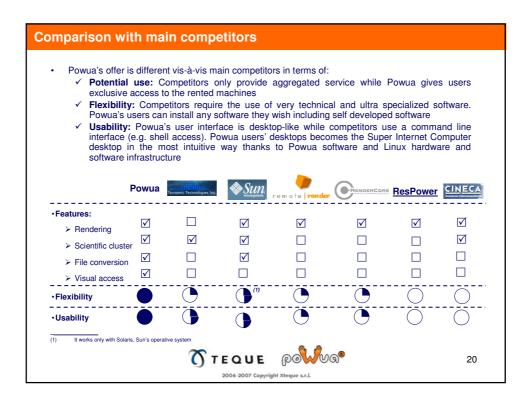


Table	e of contents	
L	Company purpose	
н.	Problem/solution	
Ш.	Why now	
IV.	Market size	
v .	Competition	
VI.	Product	
VII.	Business Model	
VIII.	Team	
IX.	Strategy	
х.	Financials	
XI.	Swot analysis	
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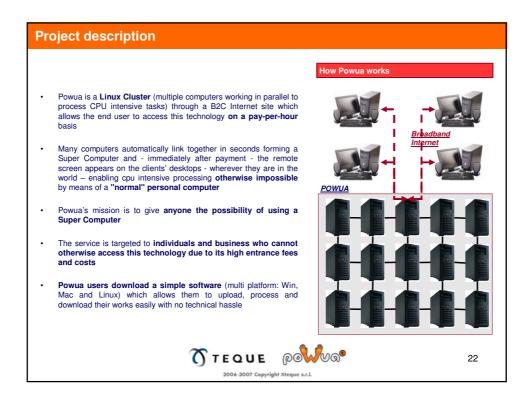
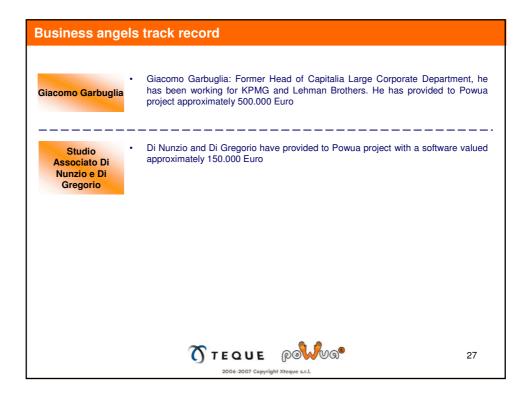


Table	e of contents	
L	Company purpose	
п.	Problem/solution	
Ш.	Why now	
IV.	Market size	
٧.	Competition	
VI.	Product	
VII.	Business Model	
VIII.	Team	
IX.	Strategy	
х.	Financials	
XI.	Swot analysis	
	TEQUE POWVO	23
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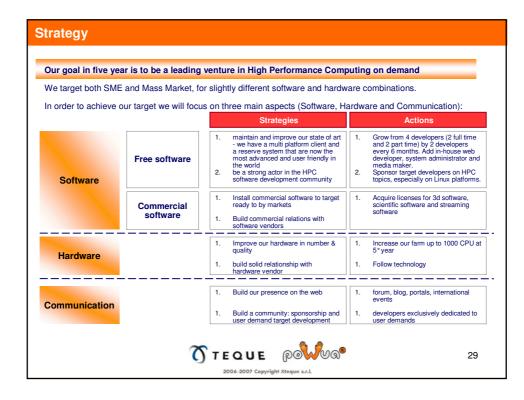
Business mod	lel
Revenue Model	 We imagine Powua as an hotel. In fact, we rent cpus as hotel holders rent rooms, main difference is that "our rooms" (cpus) are customizable in terms of dimension (nr of cpus rented) and features (software already loaded on CPUs) In that sense the main parameter we look at is the load factor: <u>nr of cpus rented</u> <u>nr of total available cpus</u> Our revenue are estimated as the product of the price per the load factor
Pricing	 We assume 1,5 € per each cpu/hour rented.
Sales & Distribution model	 Our customers can use Powua services only after having charged a prepaid account. If they have enough credit, they can book their hours through an online calendar
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Table	e of contents	
I.	Company purpose	
н.	Problem/solution	
III.	Why now	
IV.	Market size	
٧.	Competition	
VI.	Product	
VII.	Business Model	
VIII.	Team	
IX.	Strategy	
х.	Financials	
XI.	Swot analysis	
	🐧 TEQUE PO	ຼ ້າບລ• 25
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Management t	rack record
Communication	 Marco Ghirlanda: After a degree in Science of Communication he has leaded Opensourcelab (European research project) and he is the inventor and main developer of the Mediainlinux project and it's continuation ArtistX, two GNU/Linux versions for Multimedia production extensively used in many countries of the world.
Technology	 Studio Associato Di Nunzio e Di Gregorio: Main Developers have an extended background both in research and production in the GNU/Linux environment. Some of their projects include the Torino Scienza website, PsycoPG a PostgreSQL Python driver used at NASA and part of the national public network infrastructure of Mozambico on behalf of the Italian government. Mr Di Gregorio and Mr Di Nunzio are teaching professors at Politecnico di Torino, they are two of the main Italian experts of Linux environment, in particular Mr Di Gregorio is one of 3.000 world wide authorized Debian developers
Legal	 Pietro Nocita: CEO, after degree in Law he has started a collaboration with the department of Aesthetic at Politecnico di Milano, has a strong knowledge of technological and communications legal implications. He's collaborating with Xteque s.r.l. following all legal and trademarks aspects.
Economics	 Marco Armenante: Consultant, after a degree in Economics at Bocconi University in Milan has been working for Lehman Brothers, Credit Agricole Indosuez and Capitalia M&A department.
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I.	Company purpose			
н.	Problem/solution			
III.	Why now			
IV.	Market size			
۷.	Competition			
VI.	Product			
VII.	Business Model			
VIII.	Team			
IX.	Strategy			
х.	Financials			
XI.	Swot analysis			





Financials									
Till now we have in housing services, fo etc).									
Main projections	assump	otions							
Revenues									
Our conservative a	ssumptio	ns imply	a averag	e factor s	tarting c	of 60%. V	Ve assur	ne a the followin	a pricina arid
Nr of hours acquired Price CPU/Hour	12 1.00	24 0.90	48 0.85	96 0.80	250 0.70	500 0.60	1,000 0.55	5,000 0.50	
<u>Costs</u> Housing, we assum Personnel, we assu 3,5% of total sales						desk. C	redit care	d fee 3% of total	sales, SG&A
							(b)		
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	Year 1	Year 2	Year 3	Year 4	Year 5	Balance sheet	Year 1	Year 2	Year 3	Year 4	Year
€ Sales	200.585	267,446	267,446	267,446	267,446	€ Intangibles	106,696	80,409	54,121	27.834	2.94
Cpu number	200,505	64	64	64	64	Tangibles	160,000	120,000	80,000	40,000	3,33
CPU/Hours sold per month	249,480	332.640	332,640	332,640	332,640	Fixed assets	266.696	200,409	134.121	67,834	6.28
Average load factor	60%	60%	60%	60%	60%			,			-,
						Net working capital	44,187	44,187	44,187	44,187	44,18
Costs Housing and colocation	(87.600)	(87,600)	(87.600)	(87,600)	(87.600)	Net invested capital	310.883	244.596	178,308	112,021	50,46
Credit card fees	(6.018)	(8,023)	(8,023)	(8,023)	(8,023)	Net invested capital	510,885	244,590	178,508	112,021	50,40
Personnel	(74.880)	(82,368)	(90.605)	(99,665)	(109.632)	Shareholders' equity	221.847	179,510	142.775	113.571	84.72
Help desk	(74,880)	(82,368)	(90,605)	(99,665)	(109,632)	snarenoiders equity	221,647	179,510	142,775	115,571	64,72.
Technicians					-	Debt	89.036	65.085	35.534		
Others						Cash	r _r	-		(1.550)	(34,255
SG&A	(17,900)	(19,690)	(21,659)	(23,825)	(26,207)	Net financial position	89.036	65,085	35,534	(1.550)	(34.255
Powua ordinary maintenance	-	-	-	-	-	• • • •					
Total costs	(186,398)	(197,681)	(207,887)	(219,114)	(231,463)	Total sources	310,883	244,596	178,308	112,021	50,46
EBITDA	14,187	69,765	59,559	48,333	35,984	check					(0
EBITDA margin	7%	26%	22%	61%	64%						
Amortisation	(24,741)	(26,287)	(26,287)	(26,287)	(24,887)	Cash flow	Year 1	Year 2	Year 3	Year 4	Year
Depreciation	(40,000)	(40,000)	(40,000)	(40,000)	(36,667)	€ Net eamings	(78,153)	(42.336)	(36,735)	(29,204)	(28,848
Depreciation & Amortisation	(64,741)	(66,287)	(66,287)	(66,287)	(61,553)	Net earnings Depreciation & Amortisation	(78,153) 64,741	(42,336) 66,287	(36,735) 66,287	(29,204) 66.287	(28,848
EBIT	(50,553)	3,478	(6,728)	(17,954)	(25,570)	Deprectation & Amortisation Delta NWC	(22,287)	21,900	21,900	21,900	21.90
EBIT margin	n.a.	1%	n.a.	n.a.	n.a.	Operative cash flow	(57,600)	23,951	29,552	37,083	32,70
Financial costs	(26,651)	(42,466)	(26,736)	(8,063)	-	-					
EBT	(77,205)	(38,988)	(33,464)	(26,017)	(25,570)	Investments in CPUs	(200,000)			-	
	. ,,					Patents and trademarks	(30,601)		-	-	
Taxes	(949)	(3,348)	(3,271)	(3,187)	(3,278)	Graphics	(14,351)				
% of EBT	n.a.	п.а.	n.a.	n.a.	n.a	Software	(24,600) (27,200)	(27,200)	(27.200)	(27.200)	(27.200
Net earnings	(78,153)	(42,336)	(36,735)	(29,204)	(28,848)	Licenses		(27,200)	(27,200)	(27,200)	(27,200
						Others Total investments	(34,685) (331,436)			-	
						Cash flow post investiments	(389,036)	23,951	29,552	37,083	32,70
						Dividends					
						Dividends Equity injections	300.000	-	-	-	
						Equity injections Cash flow before debt repayment	(89,036)	23.951	29.552	37.083	32,70
						Cash now before debt repayment	(89,036)	25,951	29,552	57,083	52,70

Table of contents			
L.	Company purpose		
п.	Problem/solution		
Ш.	Why now		
IV.	Market size		
v .	Competition		
VI.	Product		
VII.	Business Model		
VIII.	Team		
IX.	Strategy		
х.	Financials		
XI.	Swot analysis		
		33	

S.W.O.T.			
Strengths	Weakness		
 Based on Open Source software (GNU/Linux): no license fees, customizable and rock solid Expanding demand of high performance computing Very easy access through a point-and-click user experience Users can install their own software Satisfaction of the demand of individuals who cannot afford the acquisition or setup of HPC Possibility to outsource fixed costs for current HPC users Made by Linux developers 	 Some commercial and popular software do not operate on Linux yet (e.g. Adobe) Super Computers are not available on Mass Market (until Powua?) Normally users do not use Linux clusters or even know about their existence Hardware high obsolescence rate Single point of faliure 		
Opportunities	Threats		
 Possible partnerships with software producers that could include a "rent the software when you need it" sell strategy plus demo mode Worldwide distribution Became the forge and test bed of HPC open source software Open Powua's high speed access points (internet cafè like) Potential uses by mass market 	 Big actors could replicate the business, patent application made to protect Confidentiality of data processed on Powua's Super Computer 		
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