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Thank you, Daniel. We have six or seven minutes to discuss a very large topic, and I will not use ChatGPT to make a summary, I am not a robot nor a chatbot, I am just a human looking at life. First, I would like to thank Thierry de Montbrial because I have been to 20 forums this year and we have had three days on AI and three panels on things other than AI, but this time we have three panels on AI and the rest are things that matter around what is going on in the world. Thierry, thank you for resisting this wave so that we can enrich our thinking process.

When it comes to why we are talking about AI everywhere, I think there are three reasons. First, there is the explosion of technology that you will have seen everywhere. Second, AI has been used as an anxiety-producing theme for everyone on TV, and when the world is fine nobody watches TV, but they do when fear generates a lot of interest, and that is something that has really worried me in the last two or three years. Last, is the popularization of ChatGPT, which I will talk about later.

On the first factor, when you look at what is going on in technology, it is really what we call an ecosystem. The term ecosystem is now used everywhere as soon as you have a group of 10 people, but I am a scientist and I like precision, so an ecosystem is when you have nodes and communities where if one is removed the group will collapse. Technology is three things, hardware, transmission/telecoms, and software. When you look at hardware, there is a new Moore's Law, and instead of doubling capacity every 18 months, you now have very small chips, quantum chips for example, edge computing, you all know today's new toy comforters (our smartphones).Quantum computing is arriving and the power is going to be multiplied by 100 to 1 million in a few years. This revolution, the fifth revolution, is absolutely amazing. Second, regarding transmission with 5G+ and 6G, fiber and satellite, we will have total world coverage in three or four years with very high speed and very low latency. Last, as for software, you create, transmit and compute data and with all the new algorithms, the new LLMs, Large Language Models, and LQM, Large Quantitative Models, there is a huge transformation of the treatment. The combination of those three pillars makes the technology absolutely amazing.

Here's the second reason why we talk about AI. A lot of things have been said about it but personally I have been involved in it since 1982, so I am kind of a veteran. My diploma has been put on the back burner for 40 years, but I have been very popular for the last few years because, with a few colleagues including some from our institute, we have tried to educate people. AI has been used by some people to go on TV and create fear around things like the return of the Cold War or the robots will take over, but I want to say that it will never happen.

The last piece is ChatGPT. Is there anyone in the room who has not used ChatGPT? We need to talk. ChatGPT appeared in 2019, so it is quite new, and we are now on ChatGPT 4.

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ChatGPT 1 was like a three-year-old, 2 a teen, 3 was a college student and now it is more like a PhD. I was lucky enough to see ChatGPT N+1 and N+2 and a few weeks ago a US friend came to Paris, who loves painting and good food, so I asked ChatGPT to do a program, and it said we should go to the Louvre, the Rodin Museum, Taillevent restaurant, etc. I said, "sorry ChatGPT, but your program is nuts. Museums and nice restaurants are closed on Mondays" and the response was, "sorry, but my level of information is not that accurate". The message is do not believe ChatGPT because instead of going to a corpus of information on a lot of things, it is all you can eat without any selection. ChatGPT N+1 will be different and instead of going everywhere it will work on corpus of selected information and there will be algorithms that check it 20 times, so we will move from 40% accuracy to 99%. ChatGPT N+2 is very interesting because I think we will get about 100% accuracy but there will be authorization by a human being. For example, the words we use, the structure, our emotions, our stories, the things we like or do not like, so ChatGPT N+2 will be a chief of staff, but at the end of the day, it is you who will make the call.

As you say, there are plenty of examples when we talk about AI. We have a big event at our institute, which is in its 47th edition, and we are not talking about AI, we are just talking about us, as humans, and the theme is Tech for Citizens, to see how it impacts our lives, our kids' education, the way we think, entertain and learn. I will give two examples to conclude so that you can understand. I was in the US the other day at a company Board meeting and the HR person was very late hiring 50 people because she said it took her ages to do 50 job specs. The chief scientist for Google was there and he suggested that we put everything she wanted into ChatGPT and in 10 minutes we had 50 job specs sent to LinkedIn and everywhere. Her reaction was fear about what she was going to do and that she would lose her job but, no, we said that she would spend more time with the candidates. The evolution of ChatGPT will mean the end of task-oriented jobs and it will give us a lot of time to communicate with each other with the right brain. As a last example so you can figure out what is going on, when you go to a doctor in a 30-minute appointment there is 20 minutes looking at your symptoms, does it hurt, etc., five minutes of pathology while they think about the cases they know and if not, they refer to a specialist, and five minutes of small talk. In my view, it is amazing that human beings invent very sophisticated machines, cars, trains and planes, but you would never use a car if the tires were flat, or there were no electricity or petrol, and there are about 4,000 controls in a plane, and about 300 in a train. When we wake up, the only weak signal is if we are tired or do not feel good and by then it is too late. In one of our companies, we are working on analyzing the magnetic resonance of the body, for example, when you do an MRI, it analyzes everything in your body and gives a signal if you have some kind of tumor. It is possible to imagine that, in the near future, there will be small sensors that analyze all the KPIs of your body in realtime and you will go the doctor with a dashboard, they will know exactly what you have. The symptomatic analysis will last one minute, the pathology four minutes, and there will be either another patient or there will be little to do.

To conclude, AI will simplify our lives, the task-oriented boring stuff will go away, and it will give us more opportunities to connect ourselves and to create a better world between humans.

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Thank you very much, François, that is the sunny side of the AI road, which we might discuss later.