



Sistema para monitoramento e detecção de Parkinson usando o GearS3

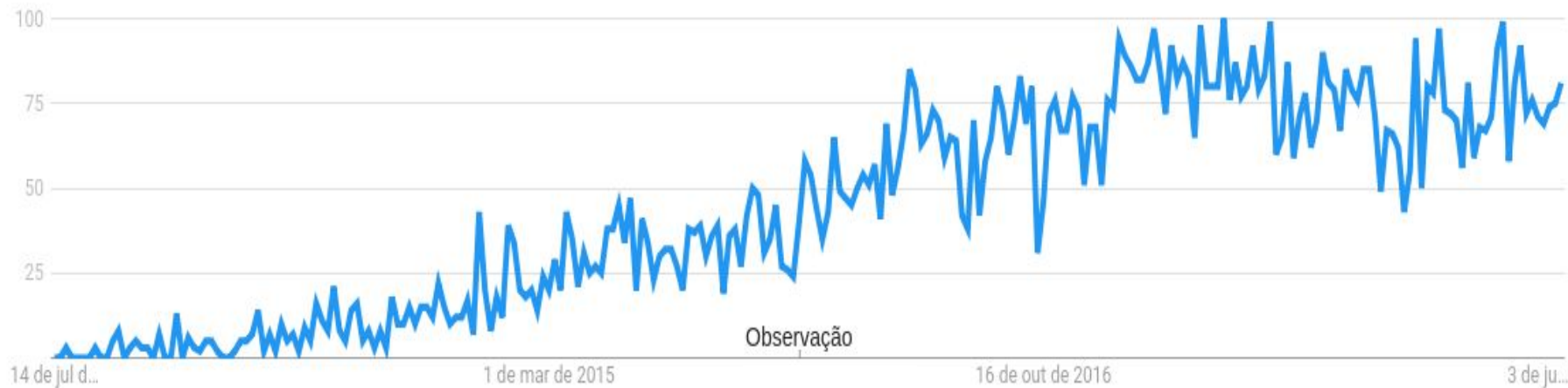
Juliany Raiol



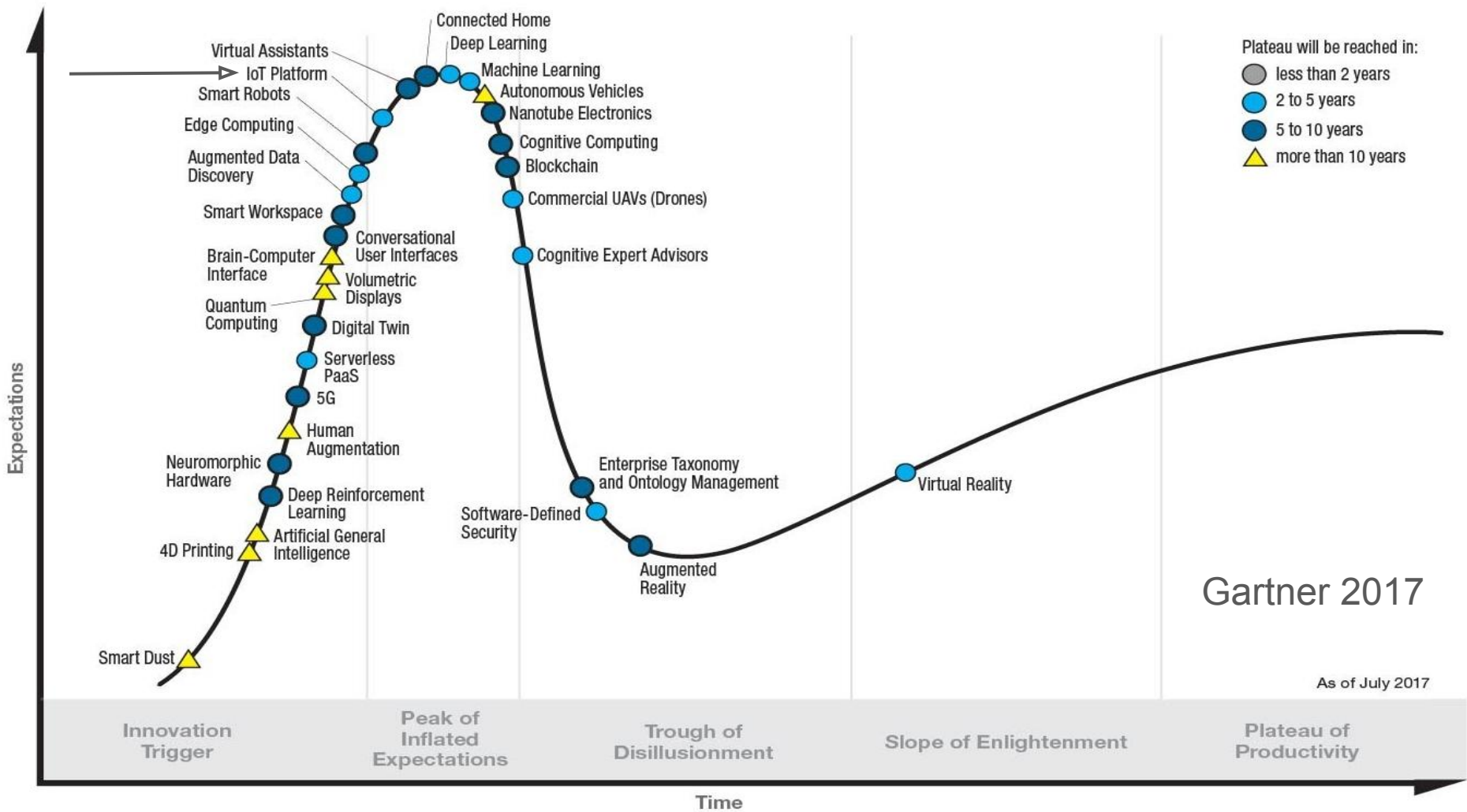
A hand is holding a smartphone. The screen of the phone displays a series of red, jagged, wave-like patterns on the left side and a series of blue, wavy, horizontal lines on the right side. The background is a light, textured surface.

Internet das Coisas

Internet das Coisas

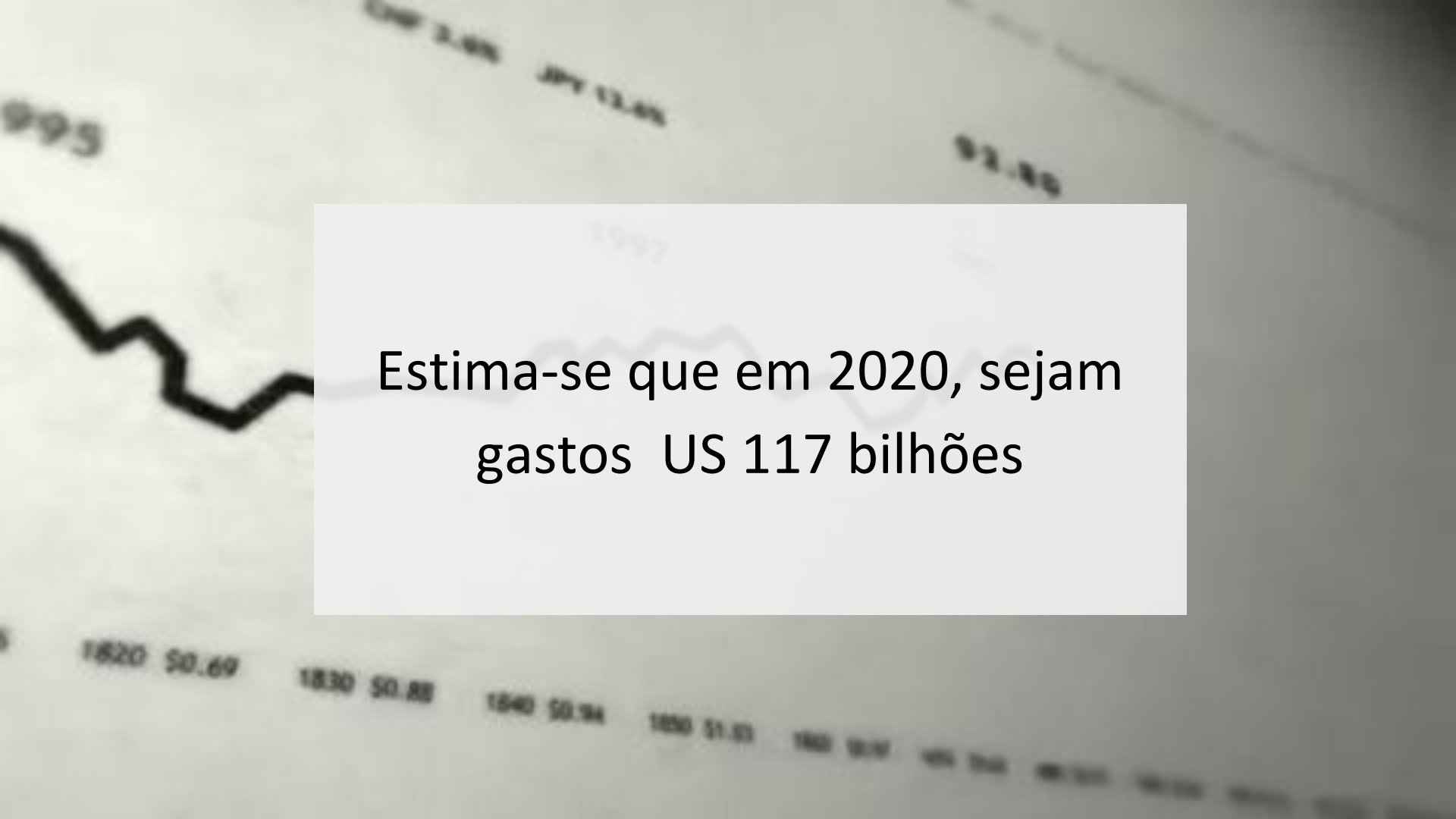


Google Trends - últimos 5 anos - IoTPlatform



An infographic on a light blue background with a central female figure. Dashed lines connect the central figure to eight circular icons: a smartwatch, a computer monitor with a stethoscope and 'COMPUTER DIAGNOSTIC' text, a smartphone with a heart rate monitor, a smartphone with a doctor's face and 'CALL DOCTOR' text, a smartphone with an X-ray image, a smartphone with a 'BUY' button and medicine bottles, a hand with a smartwatch, and a hand with a smartwatch. Background elements include a syringe, a hand holding a water drop, and a blue ribbon.

Internet das Coisas para Saúde

The background of the image is a blurred financial chart. It features a thick black line graph on the left side, showing a downward trend with some fluctuations. Above the graph, there are some faint, partially legible labels like '995', 'CHF 2.45', 'JPY 12.45', and '92.80'. Below the graph, there is a series of data points with corresponding currency values, such as '1820 \$0.69', '1830 \$0.88', '1840 \$0.94', and '1850 \$1.03'. The overall image has a light gray, slightly textured appearance.

Estima-se que em 2020, sejam
gastos US 117 bilhões

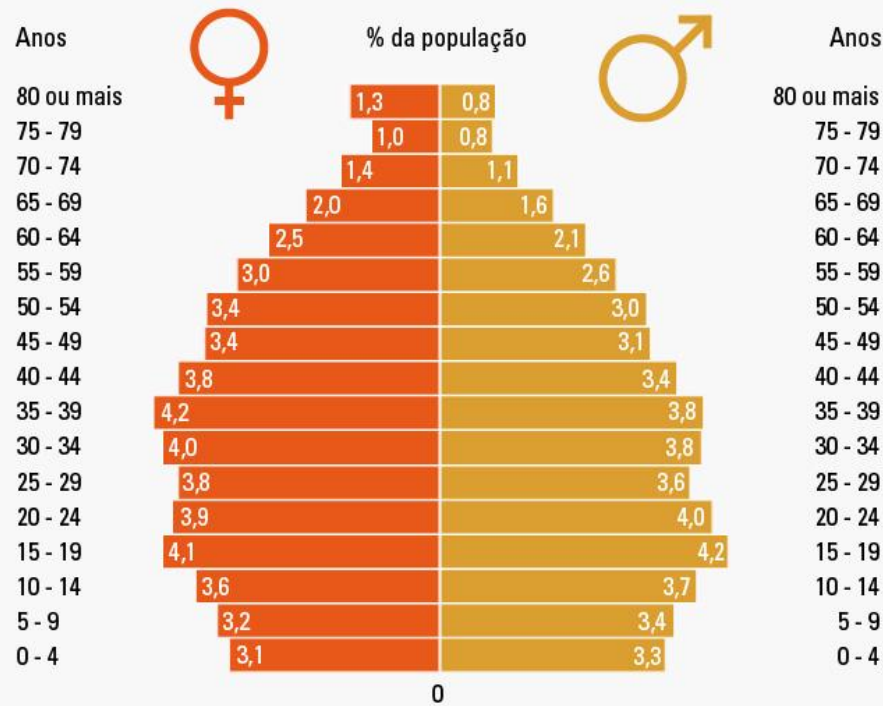
The background of the slide features a complex, abstract pattern of glowing blue squares and thin lines on a black background. The squares vary in size and brightness, some appearing as solid shapes while others are outlines. The lines form a network-like structure, connecting different points across the frame. This pattern is visible in the top and bottom sections of the slide, framing the central text area.

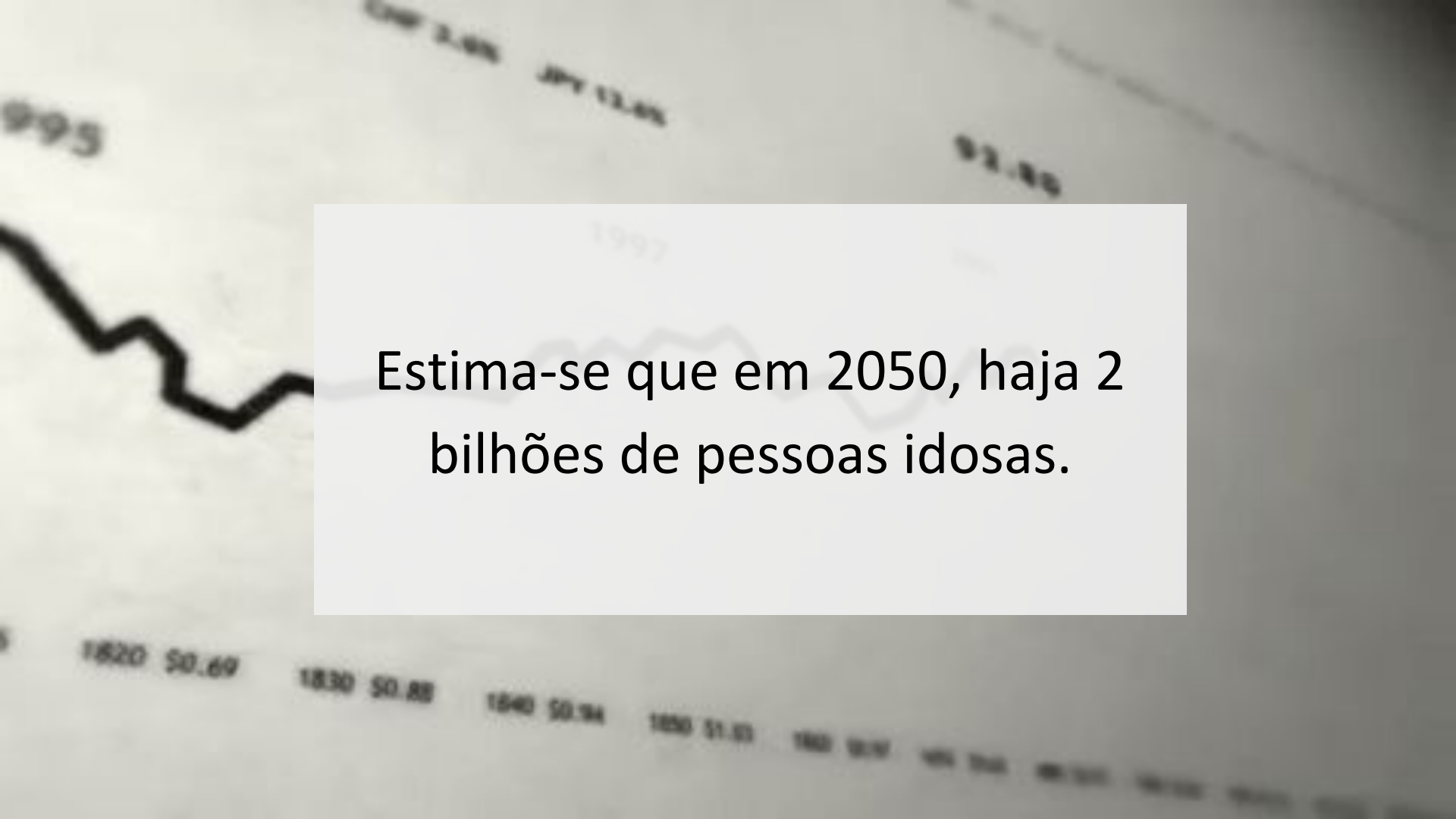
Quem da plateia possui mais de 25 anos?

Pirâmide etária

Entre 2012 e 2017, a **quantidade** de idosos **cresceu** em todas as unidades da federação.

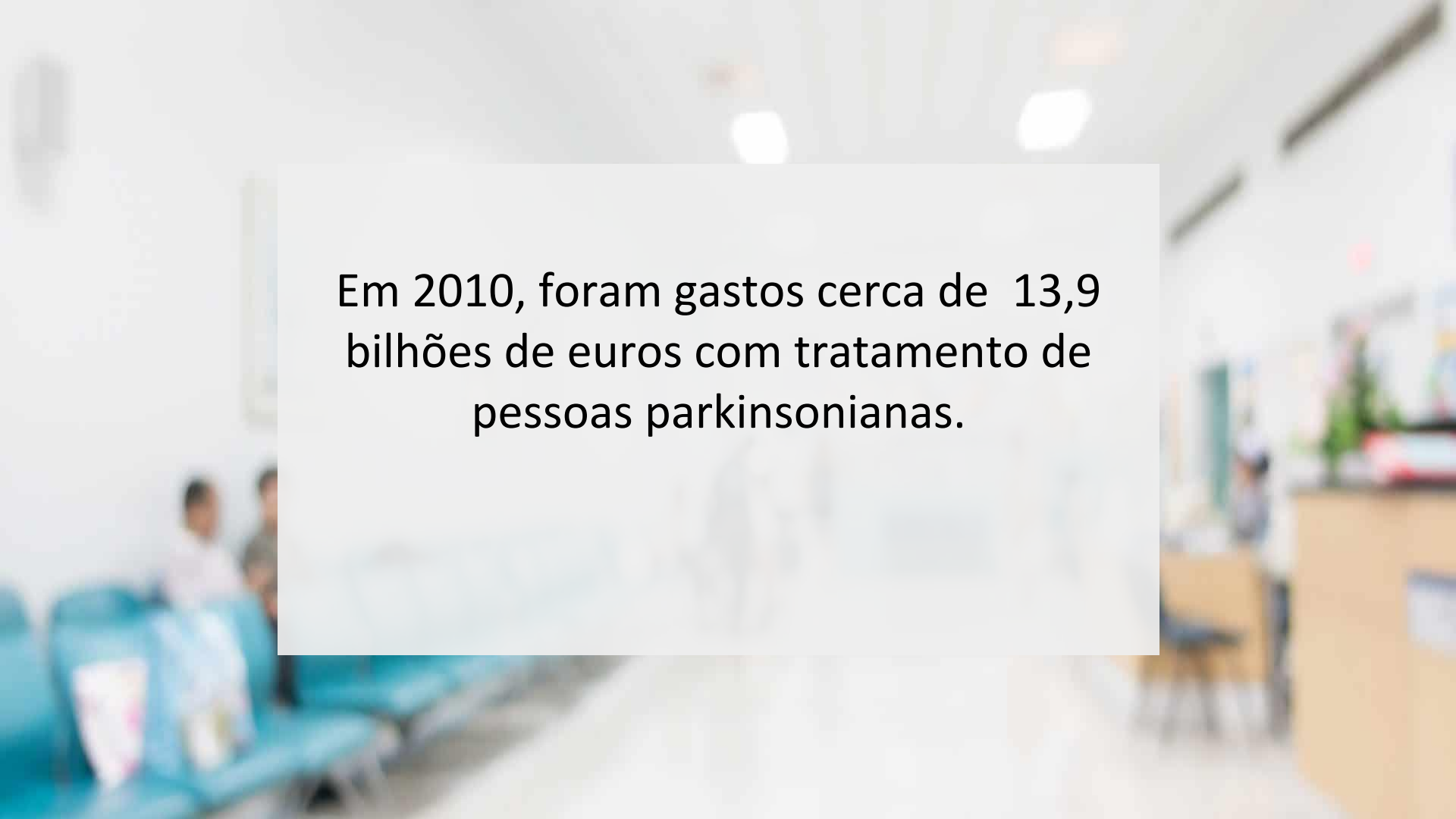
Distribuição da população por sexo e grupo de idade - 2017



A blurred background image of a financial chart. It features a jagged black line graph on the left side, with various numerical values and currency codes like 'USD 2.45', 'JPY 13.45', '995', '92.80', '1997', '1820 \$0.69', '1830 \$0.88', '1840 \$0.94', and '1850 \$1.03' scattered across the frame.

Estima-se que em 2050, haja 2
bilhões de pessoas idosas.

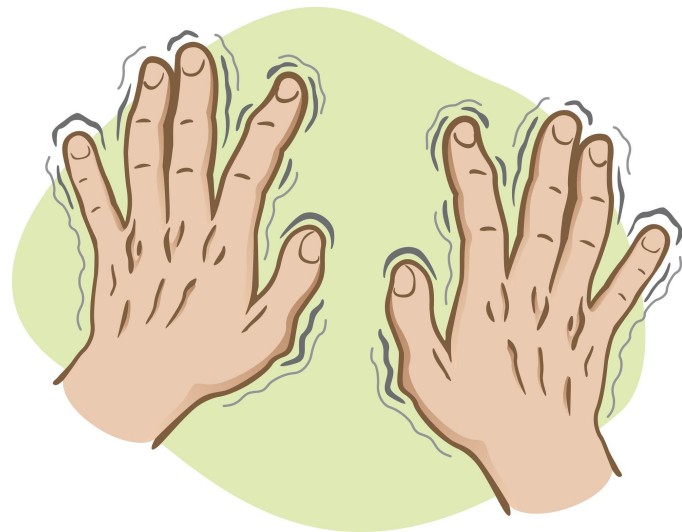




Em 2010, foram gastos cerca de 13,9 bilhões de euros com tratamento de pessoas parkinsonianas.

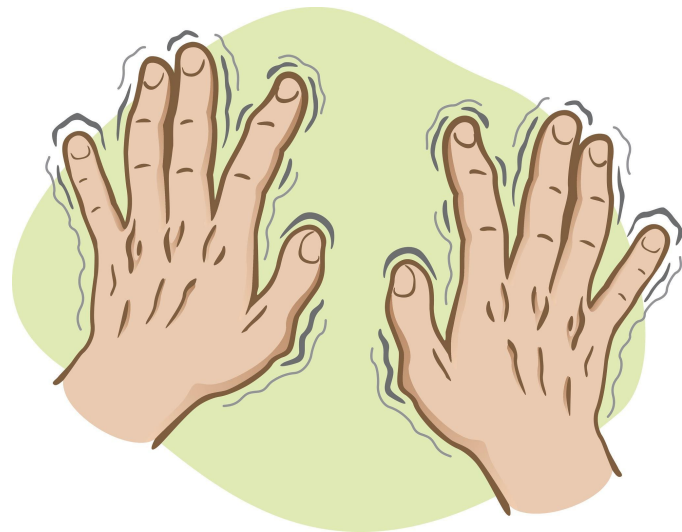
Doença de Parkinson

- Neurodegenerativa e incurável
- Debilita o paciente
- Degrada o sistema nervoso central
- Acarreta distúrbios motores em pessoas afetadas



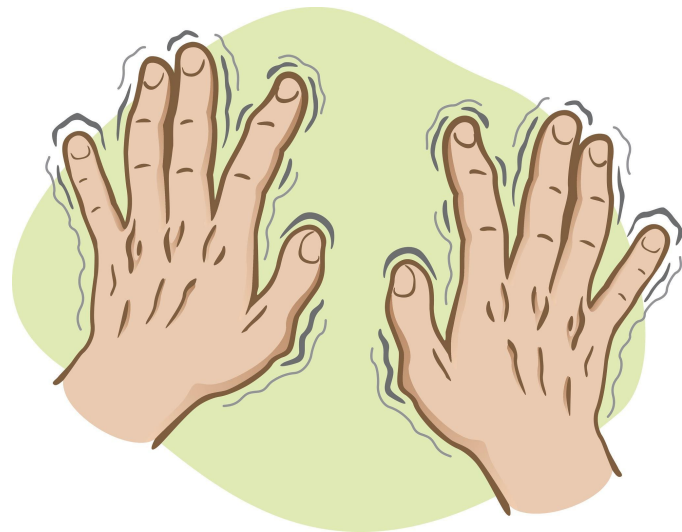
Doença de Parkinson

- Substância Negra
- Dopamina
- Excesso de atividades motoras



Doença de Parkinson

Com o envelhecimento populacional, o número de casos da doença dobrará até 2030.





A black and white photograph of an elderly woman sitting at a table. She is wearing a dark headscarf and a patterned blouse. Her right hand is pressed against her forehead, and her left arm is resting on the table. A small glass jar with flowers is on the table to her right. The background is softly blurred, showing indoor plants and a window.

Métodos rápidos para diagnóstico simples

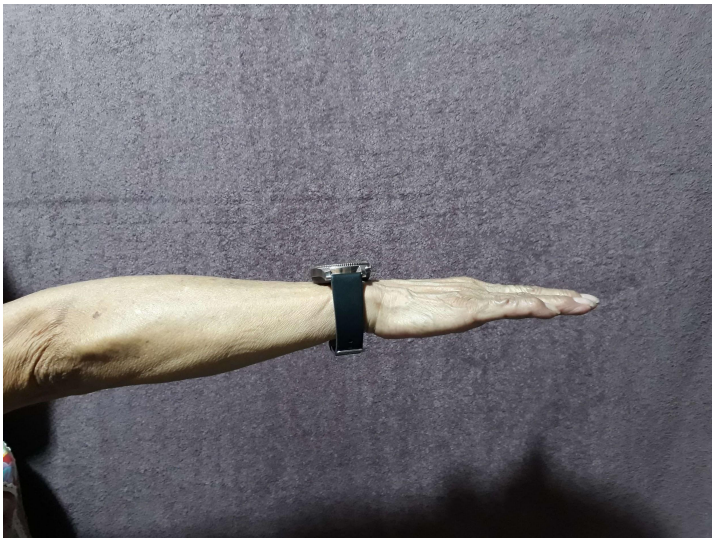
The image features a blue background with a horizontal band of light gray. A string of white-outlined light bulbs is draped across the frame. Most bulbs are unlit, but one bulb in the lower center is illuminated with a bright yellow glow, emitting several yellow rays of light. The word "PROPOSTA" is centered within the gray band.

PROPOSTA

Tecnologias

- Python (Scipy.Signal)
 - ◆ Signal Processing
- Smartwatch Samsung
 - ◆ Sensores
 - ◆ Tizen

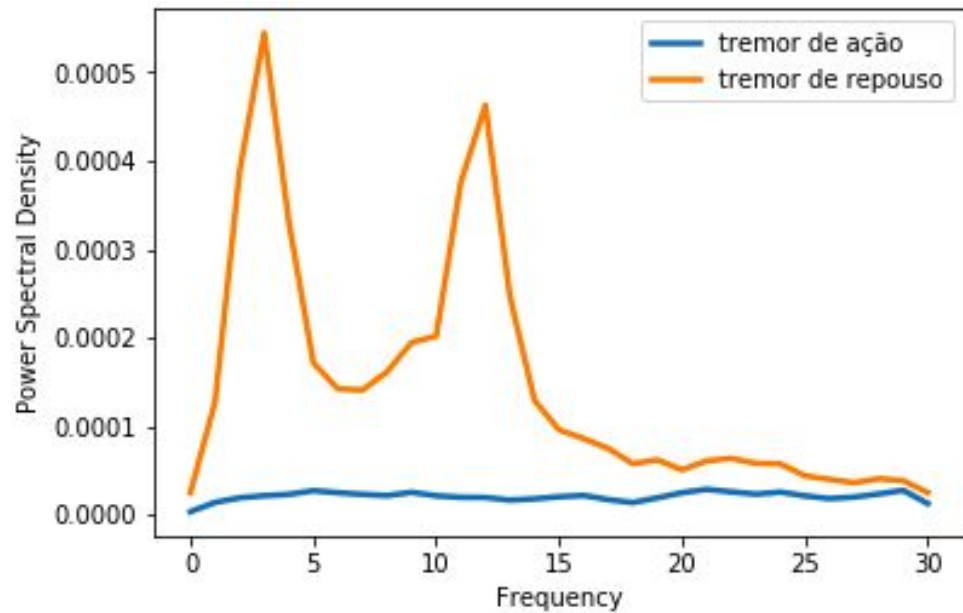




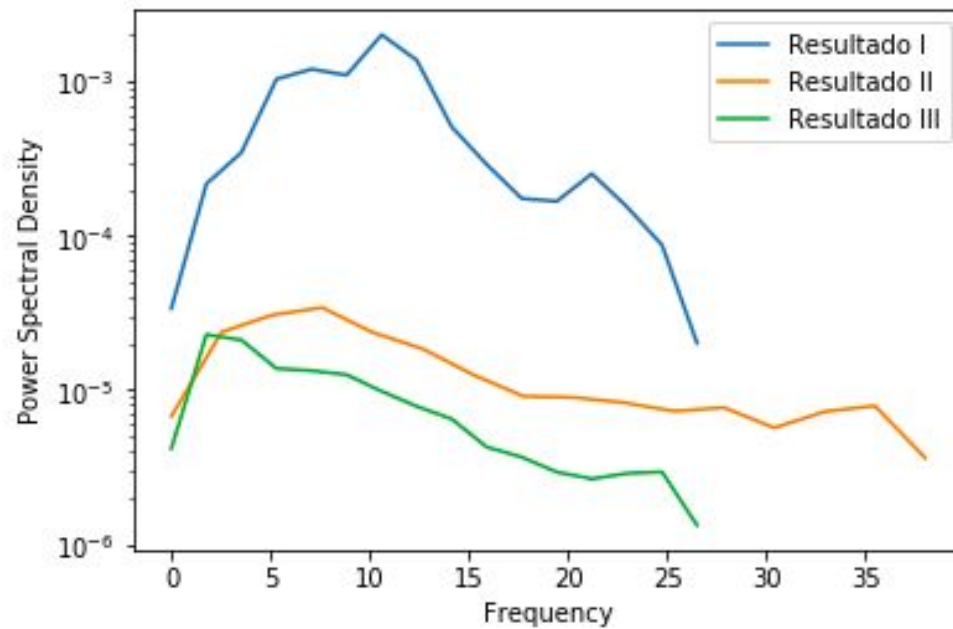
Tremor de ação

Tremor de repouso





Ação x Repouso

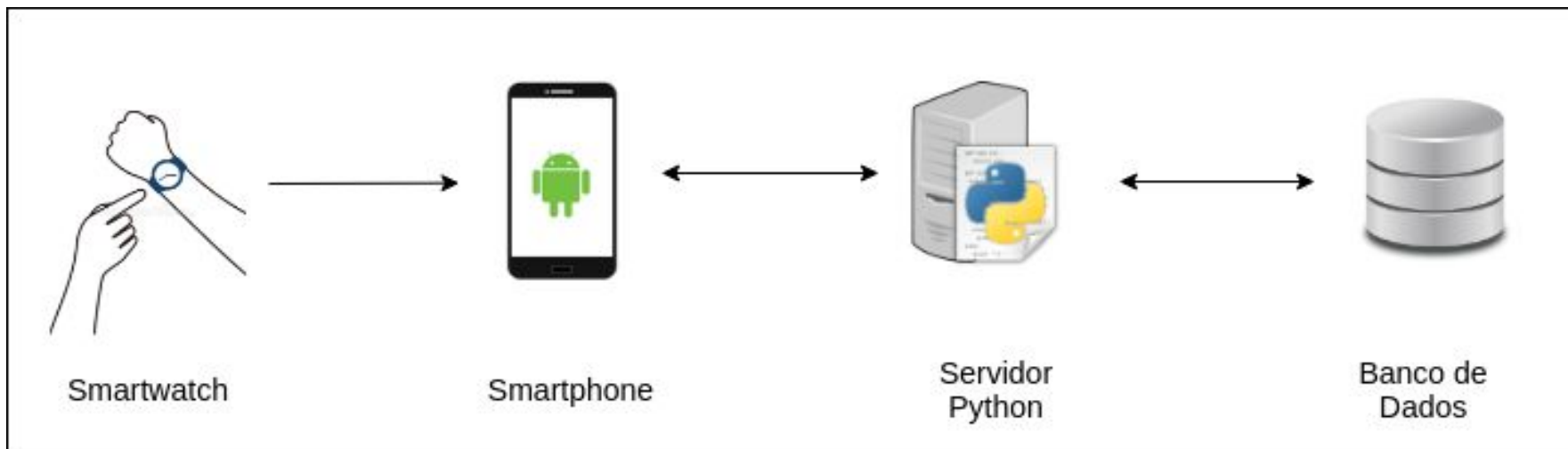


Tremor de repouso

Futuro

- Realizar testes com pacientes reais.
 - ◆ Comitê de ética.
- Melhorias na interpretação dos dados





Perguntas?



bit.ly/contato-tdc

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