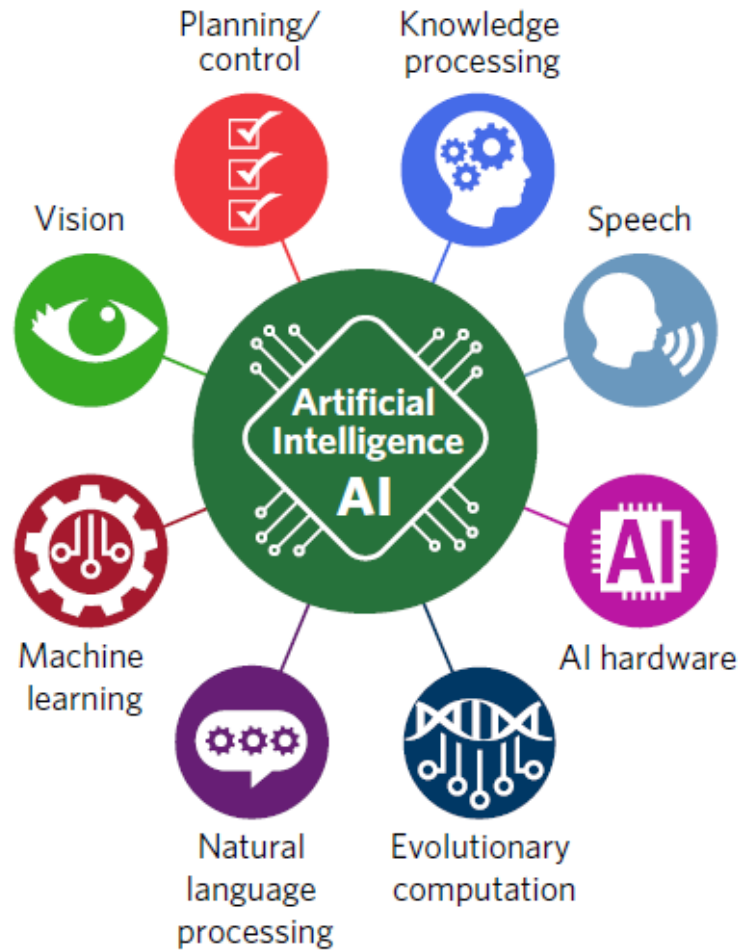


Summary of “Inventing AI”

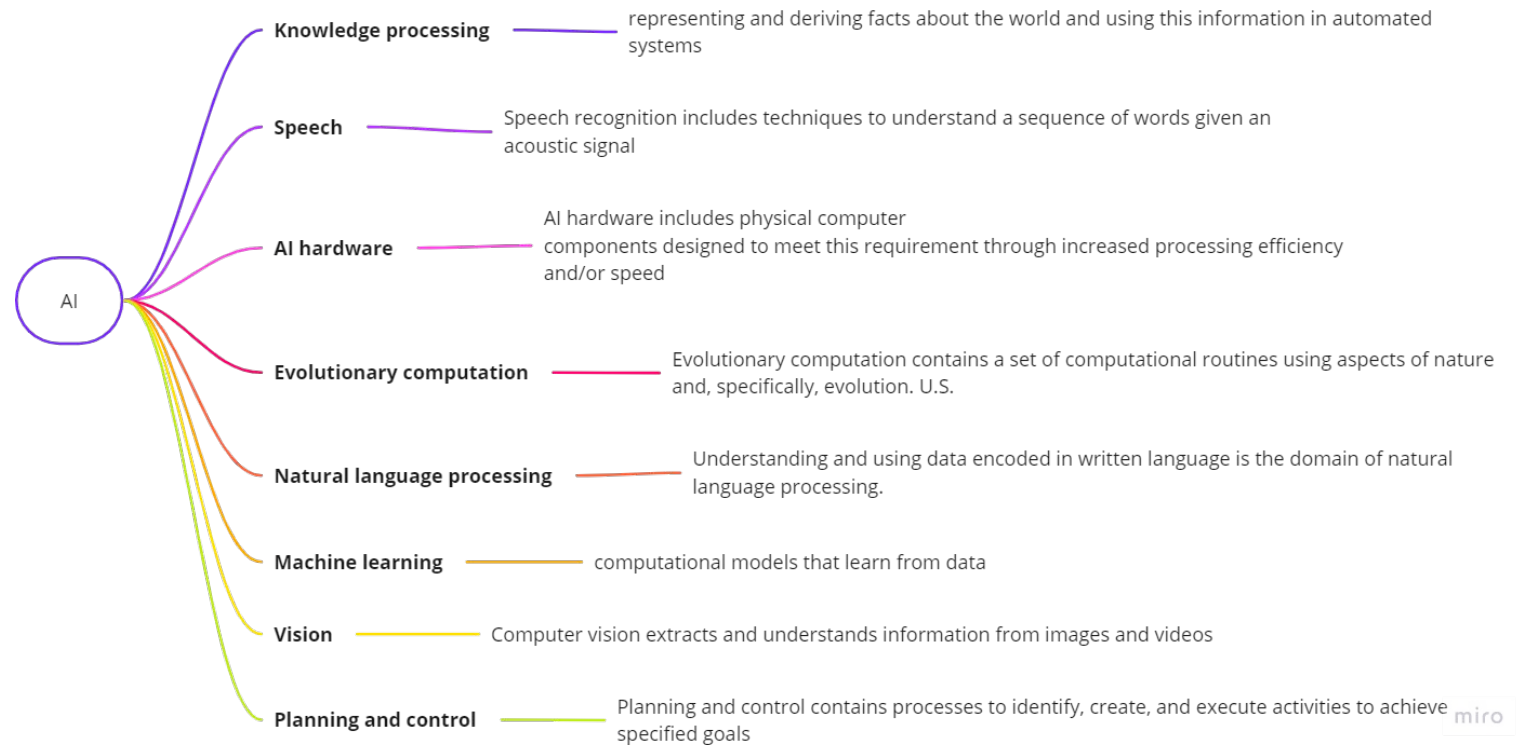
Figure 1: AI component technologies used in the patent landscape



What is AI

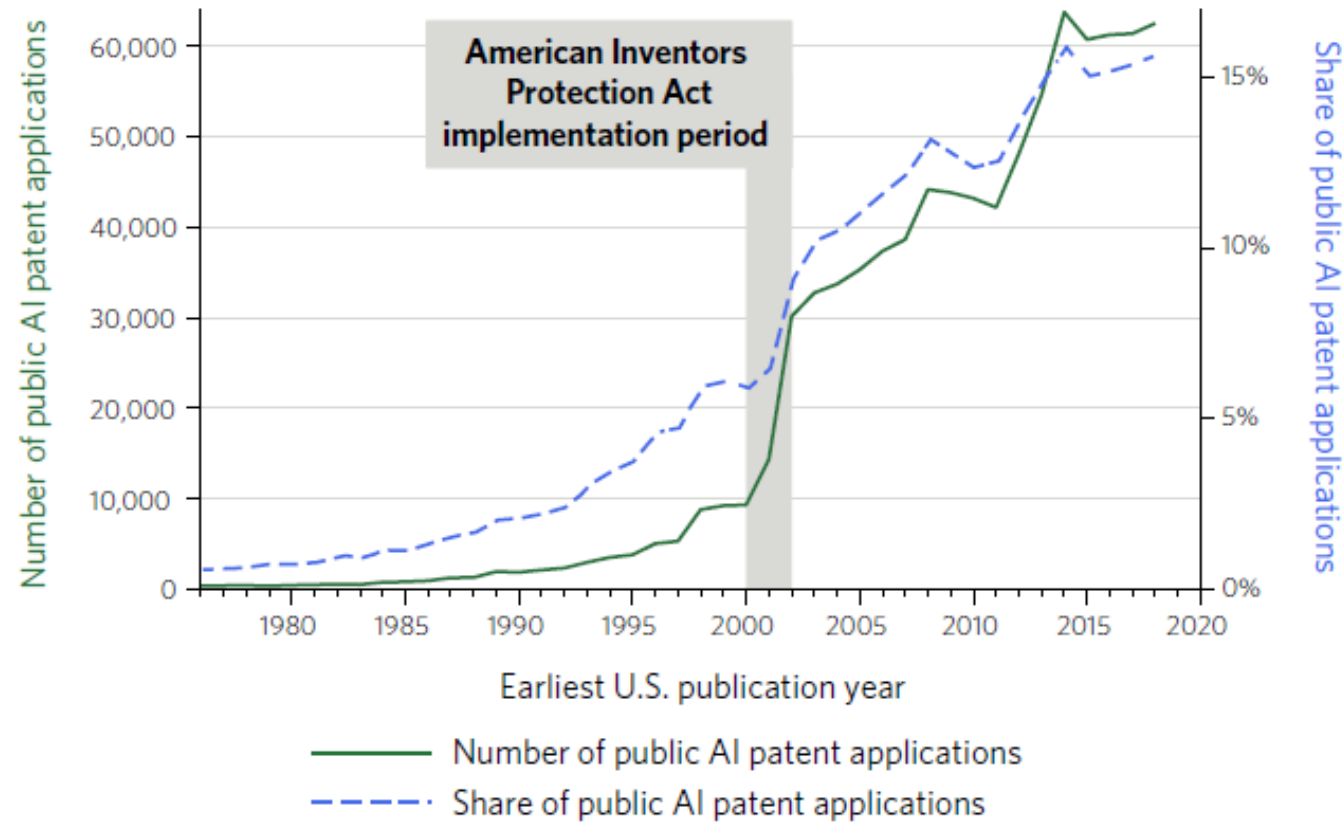
- Mirror Board:

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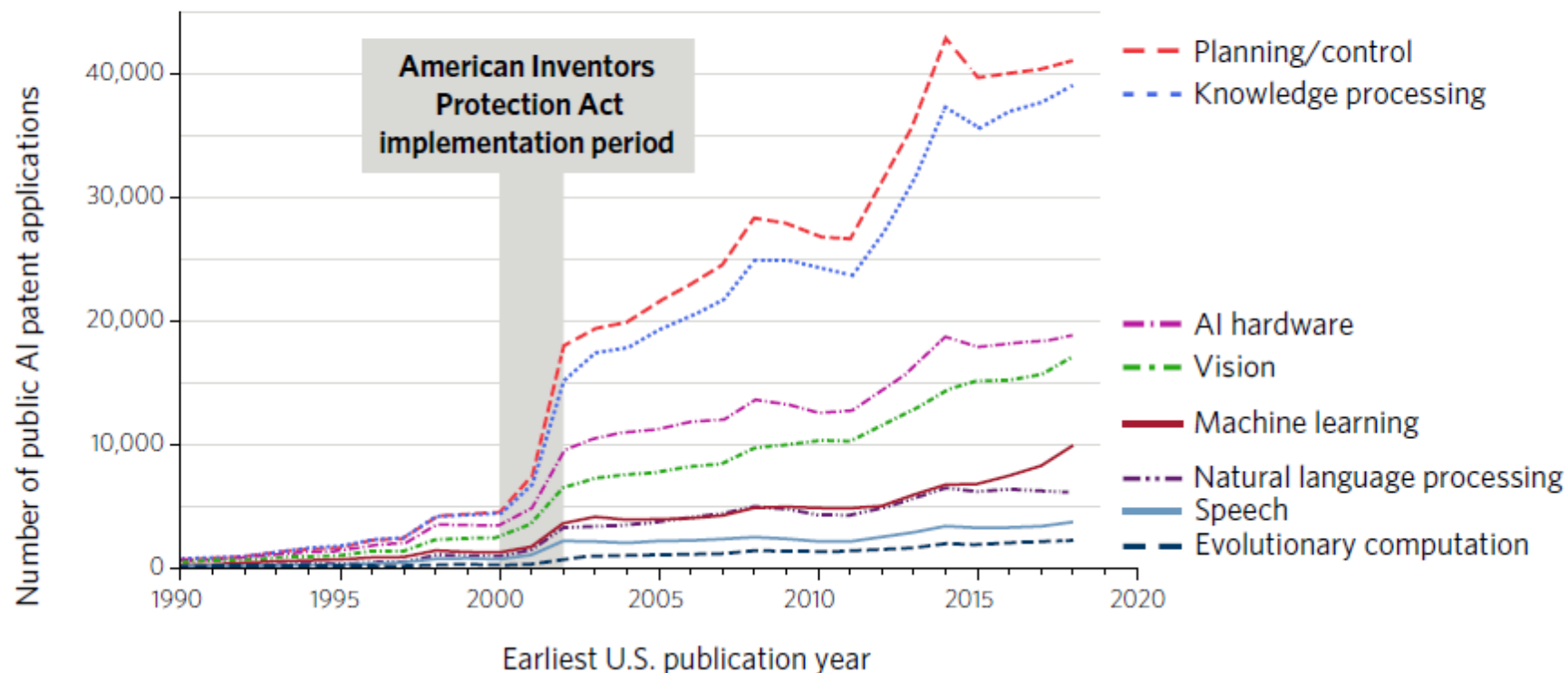
AI is increasingly important

Figure 2: The volume and share of public AI patent applications, 1976-2018



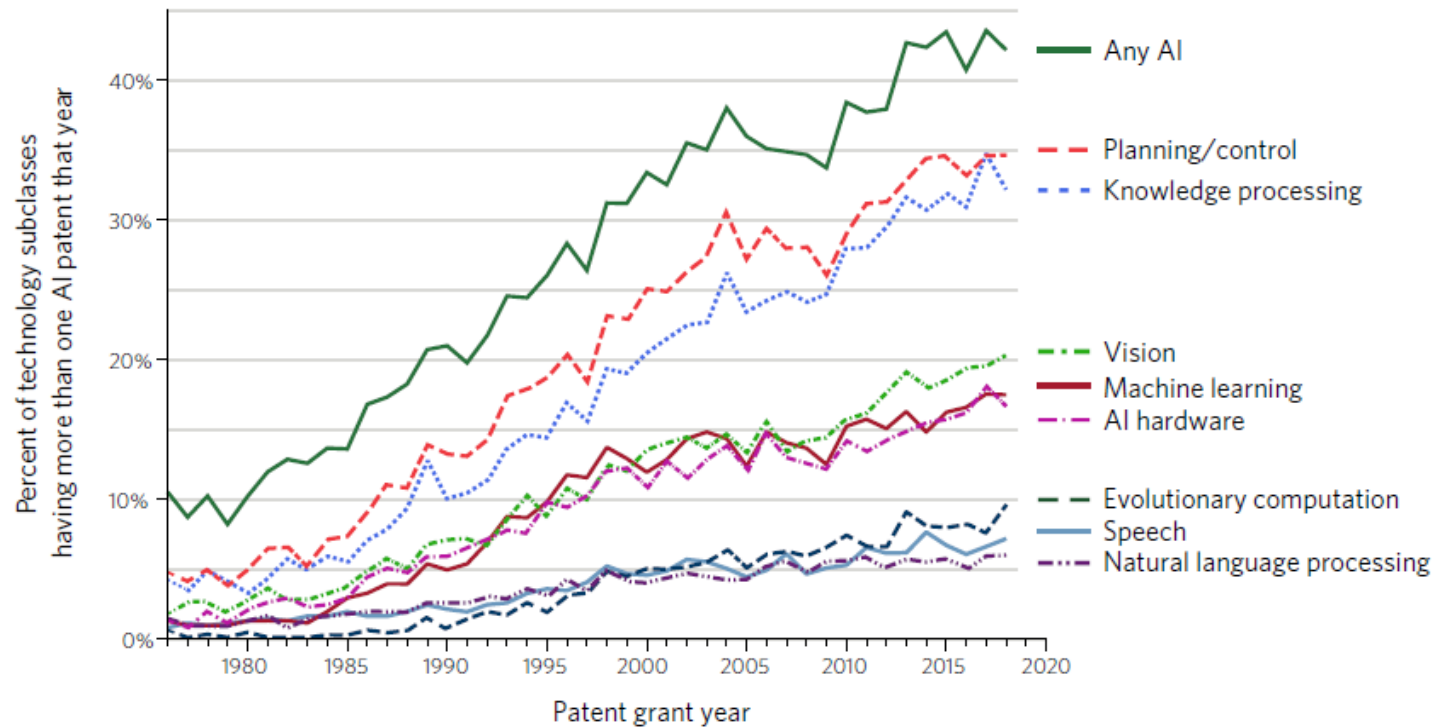
AI Patent Volume by component

Figure 3: The volume of public AI patent applications by AI component, 1990-2018



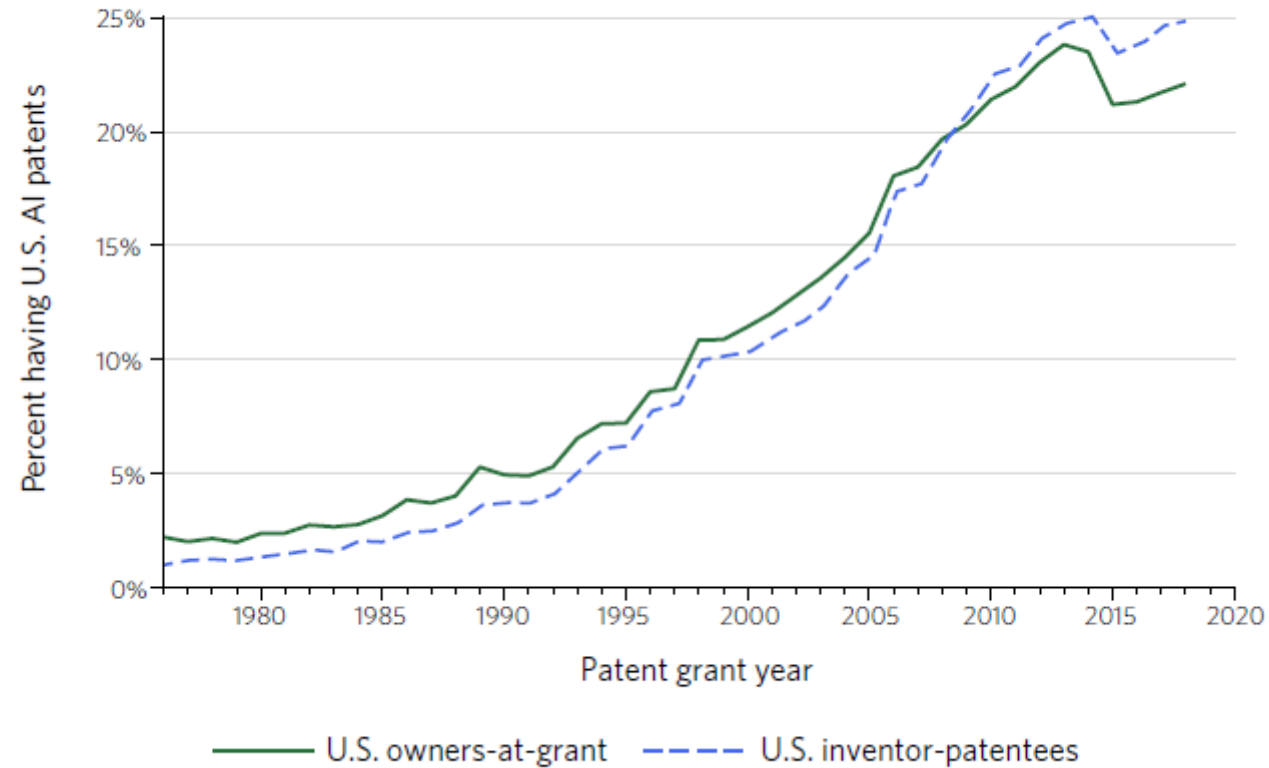
AI Diffusion across technologies

Figure 4: Diffusion of AI across patent technology subclasses, overall and by AI component, 1976-2018



Technology diffusion is the spread and adoption of a new technology by inventors, companies, and other innovators

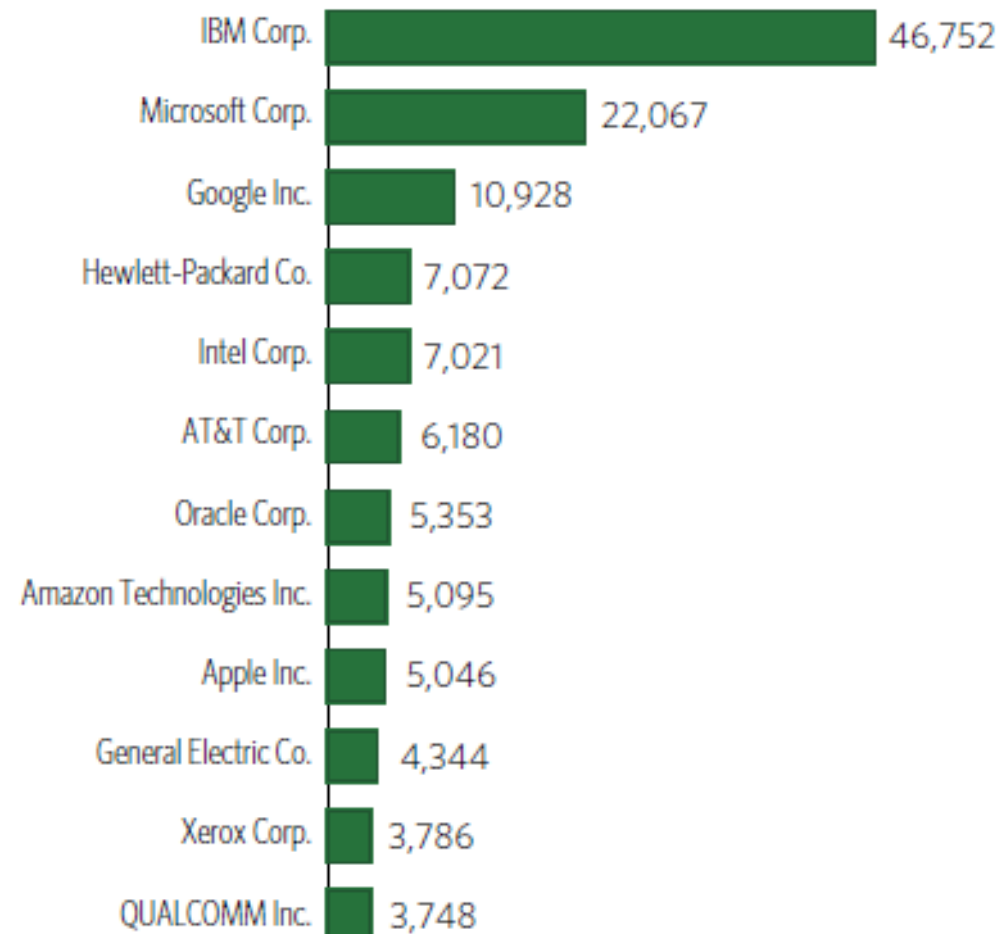
Figure 5: Annual percentage of U.S. inventor-patentees and patent owners with AI patents, 1976–2018



This means that diffusion is not just taking place across organizations but is happening within organizations—more and more inventor-patentees within organizations are adopting AI in their work.

Number of AI
patents for
companies

Figure 6: Top 30 U.S. AI patent
owners-at-grant, 1976-2018



AI patent diffusion by geography

Figure 7a: Granted AI patents by inventor-patentee location, 1976-2000

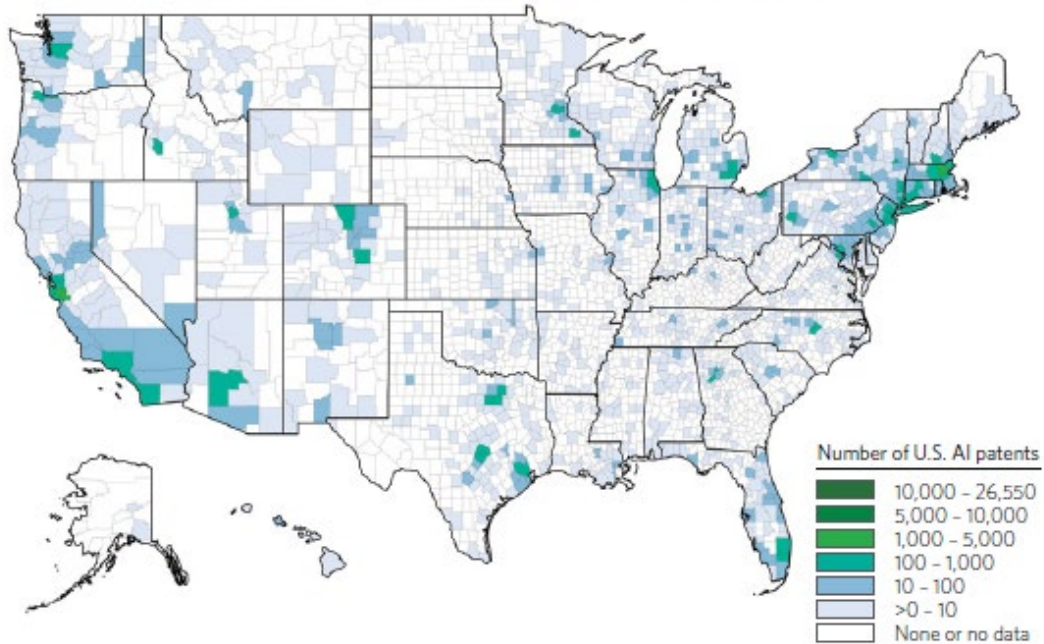


Figure 7b: Granted AI patents by inventor-patentee location, 2001-2018

