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The bioprinting market: characteristics of current bioprinting-related companies

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Context

In order to better understand the current dynamics of the global bioprinting market, information about currently operating bioprinting companies was looked for. The identification of the companies was realised through three main sources: qualitative interviews with entrepreneurs based in bioprinting companies; bioprinting or bioprinting-related literature; and the 3DMedNet website[1]. Once a certain company had been identified, its website was consulted in order to confirm that it is a bioprinting-related company, and to collect further information. Companies whose website could not be identified or was inactive were excluded. It was not always possible to collect every kind of information for all the companies, as some of them have rather basic websites. When it was possible to interview some company representatives, the dataset was complemented by or checked against the information given by the interviewees.

This analysis includes companies offering at least one of the following products: bioprinters, bioprinted structures, bioinks, or scaffolds that can be used in bioprinting. Eventually, a total of 86 companies were included.

The analysis was carried out in the first months of 2020. Data processing and visualisation were conducted with the R programming environment.

Some preliminary findings are presented below. Other findings and analyses will be presented in future publications of the BioGov team.

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[1] https://www.3dmednet.com/

Preliminary findings

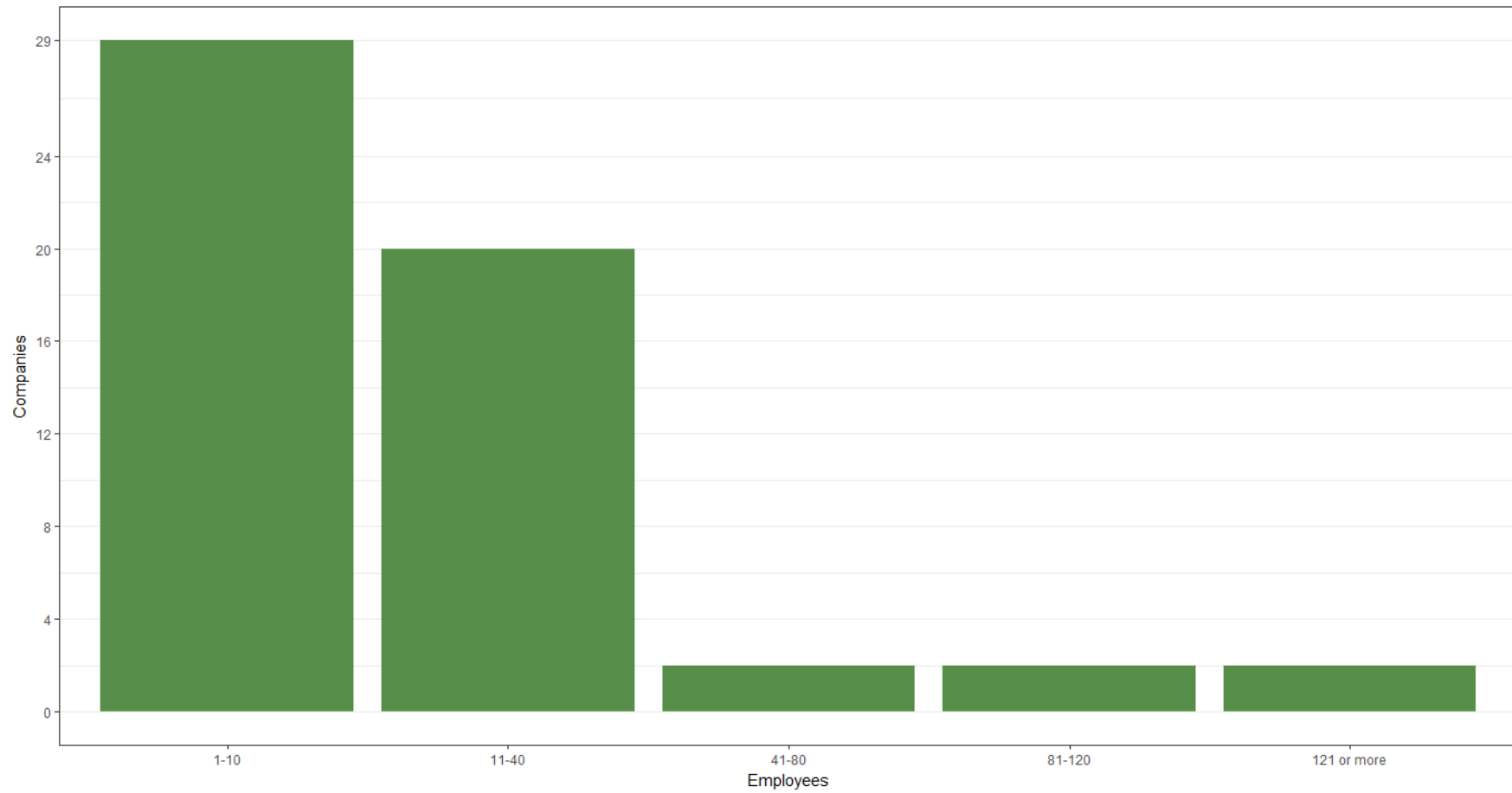**Chart 1. Companies currently exploring bioprinting by number of employees: 2019 (55 companies)**
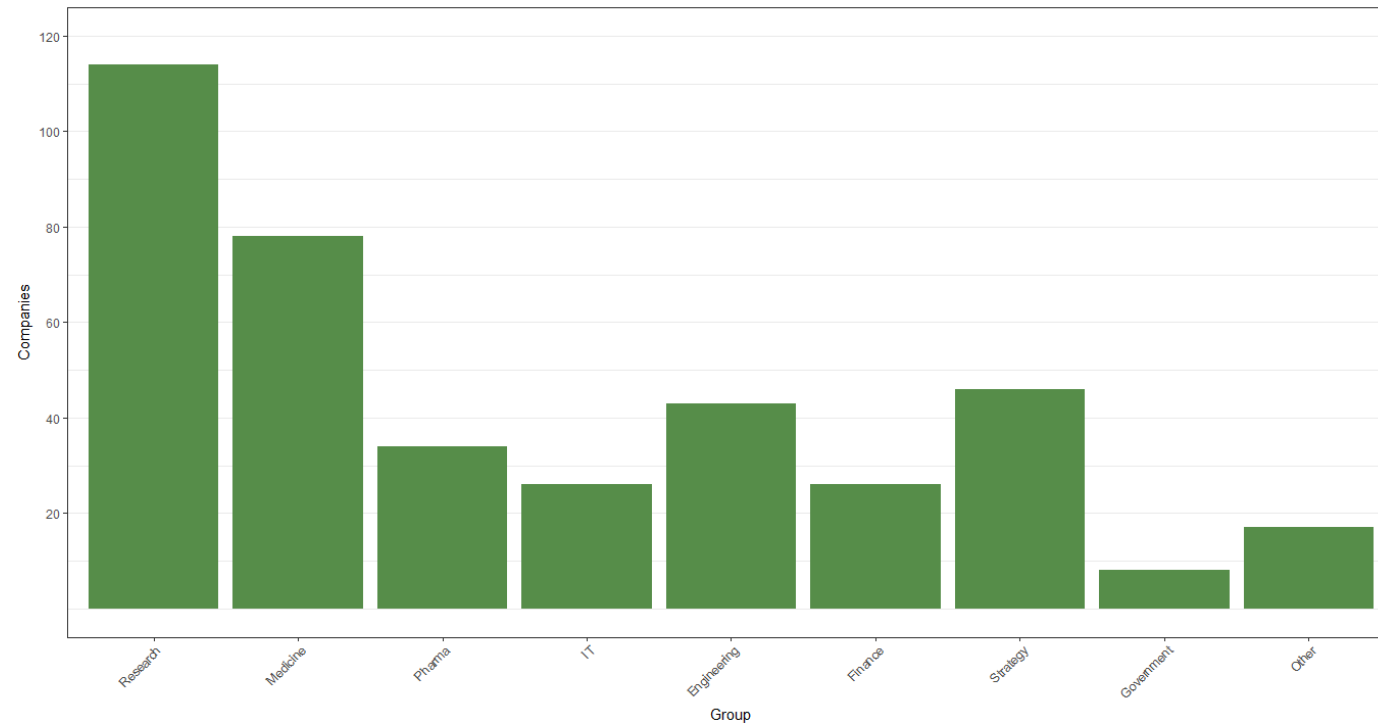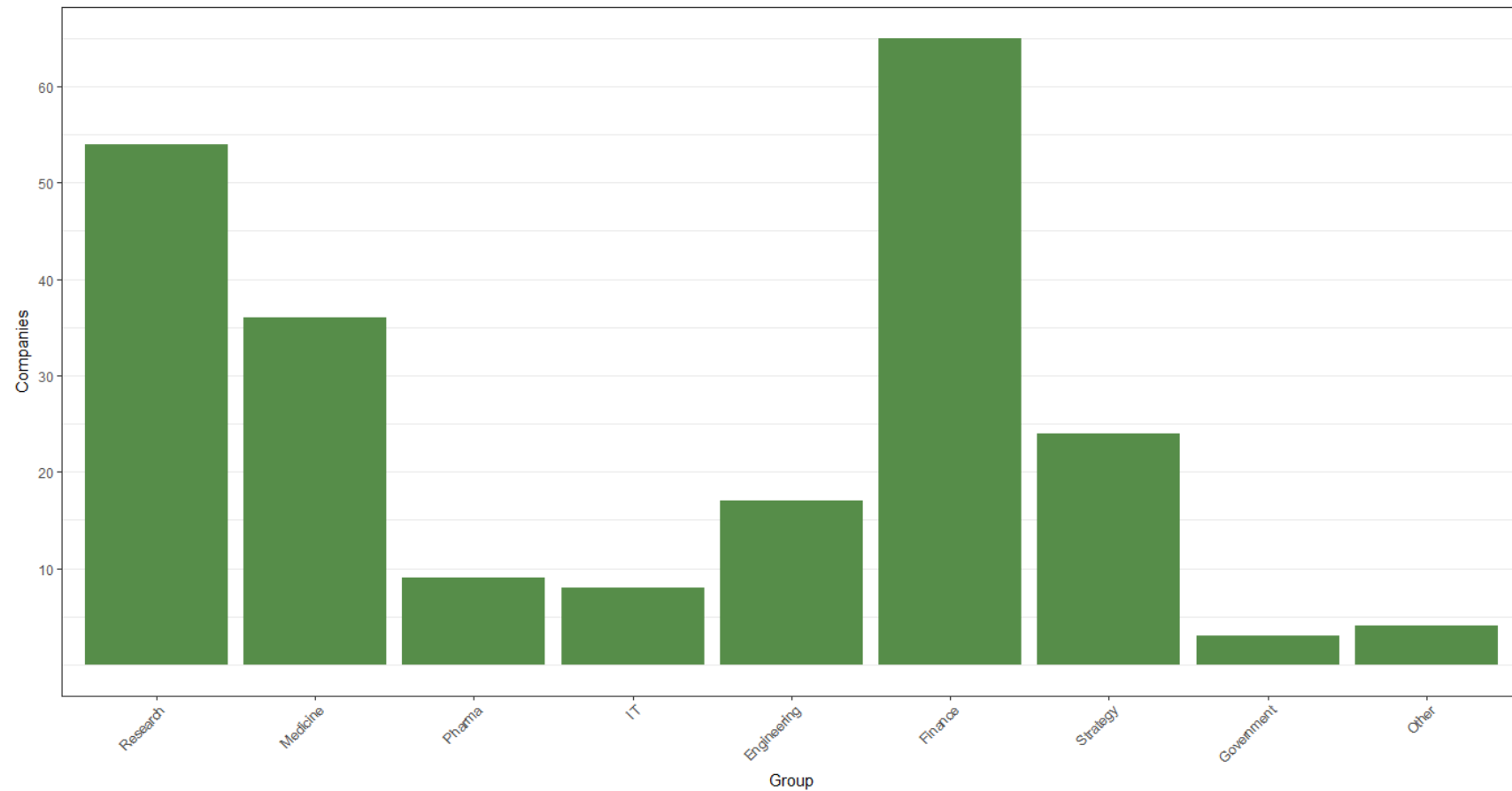
Chart 2. Previous job experiences of people working for the companies currently exploring bioprinting: 2019 (52 companies)

Research: universities and research institutes. *Medicine*: biotech companies, medical devices, personal care, health care, hospitals, and bioprinting. *Pharma*: pharma companies, CROs, and chemical companies. *IT*: IT and software. *Engineering*: engineering, electronic, 3D printing, cars, and aviation. *Finance*: banks, venture capital, audit, and insurance. *Strategy*: law companies and consulting. *Government*: government agencies or ministries. Other: logistics, marketing, security, photography, and food.

Chart 3. Parallel job positions held by the employees of companies currently exploring bioprinting: 2019 (52 companies)

Research: universities and research institutes. *Medicine*: biotech companies, medical devices, hospitals, and bioprinting. *Pharma*: pharma companies. *IT*: IT and software. *Engineering*: engineering, electronic, 3D printing, cars, and aviation. *Finance*: banks and venture capital. *Strategy*: law companies and consulting. *Government*: government agencies or ministries. Other: food.

Chart 4. Products sold by companies currently exploring bioprinting: 2019 (86 companies)