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# Why do industries coagglomerate? How Marshallian externalities differ by industry and have evolved over time

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## Abstract

The fact that firms benefit from close proximity to other firms with which they can exchange inputs, skilled labor or know-how helps explain why many industrial clusters are so successful. Studying the evolution of coagglomeration patterns, we show that which type of agglomeration benefits firms has drastically changed over the course of a century and differs markedly across industries. Whereas, at the beginning of the twentieth century, industries tended to collocate with their value chain partners, in more recent decades the importance of this channels has declined and collocation seems to be driven more by similarities industries' skill requirements. By calculating industry-specific Marshallian agglomeration forces, we are able to show that, nowadays, skill-sharing is the most salient motive in location choices of services, whereas value chain linkages still explain much of the collocation patterns in manufacturing. Moreover, the estimated degrees to which labor and input-output linkages are reflected in an industry's coagglomeration patterns help improve predictions of city-industry employment growth.

JEL classifications: J24, O14, R11

Keywords: Coagglomeration, Marshallian externalities, labor pooling, value chains, manufacturing, services, regional diversification

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