


In this chapter we examine the growing phenomenon of internet-based international new ventures, which we label "eINVs," through the lens of previous research in the fields of entrepreneurship, international business, and international entrepreneurship. Our purpose is to identify where these existing bodies of research help us to understand eINVs, and where there are gaps that constitute important questions for future research. We define an eINV by adopting a widely used definition of international new ventures (INVs) (Covas and McDougall 2007): an eINV is a venture whose business model is enabled by a digital platform and that, from inception, seeks to derive significant competitive advantage from international growth. With a focus explicitly on how extent research helps us understand eINVs, this review differs from that of Reuber and Fischer (2011), who focus on firm-level internet-related resources that are related to the internationalization of businesses in general; that of Pezderka and Sinkovic (2011), who focus on risk and the online foreign market entry decisions of small and medium-sized enterprises (SMEs); and that of Chandra and Covello (2010), who focus on consumers using the internet to pursue international opportunities.

There are both practical and theoretical reasons to study eINVs. From a practice perspective, eINVs are experiencing a significant social and economic impact globally, and are attracting widespread interest from entrepreneurs, investors and policymakers. A recent report by the OECD highlights attractive market conditions for internet firms: within OECD economies, they have constituted the fastest-growing sector for over a decade, and were among the most profitable and R&D-intensive sectors in 2011 (OECD 2012: 45–48). Internet usage is nearly ubiquitous, with roughly 90 percent of businesses and 67 percent of households in OECD economies having a broadband internet connection (OECD 2012: 135, 103), 90 percent of young people accessing the internet from home (OECD 2012: 108), and rapid adoption of internet-connected mobile devices (OECD 2012: 107).

Literature reviews, summarizing the hundreds of studies investigating constructs and relationships relevant to INVs, indicate that technology-intensive organizations tend to become more international, earlier, than organizations in lower technology sectors (e.g. Aspelund et al. 2007;
The activities involved in spreading can provide feedback to the sensing function; for example, a firm can analyze the user-generated content of online communities to sense new international opportunities.

In the remainder of this chapter we examine each of these capabilities in turn through the lens of existing theory and empirical research in the fields of entrepreneurship, international business (IB), and international entrepreneurship (IE). There is an extensive body of research on some topics and our aim is to provide a representative, rather than exhaustive, coverage of different perspectives. The key theoretical constructs identified from each perspective, as well as an e-marketing perspective in the case of the spreading capabilities, are shown in Table 10.1. The Discussion Section highlights gaps in our knowledge of eINVs that constitute important questions for future research, and presents the conclusions of this chapter for international entrepreneurship scholars. Table 10.2 summarizes the specific eINVs used as examples in this chapter, and shows that they are not solely a US-based phenomenon. It shows the wide range of eINVs we have examined, in terms of their startup place and time, the first year they received Silicon Valley financing (if any), and the extensiveness of their international presence, in terms of the number of distinct country-related URLs, the number of languages available on their website(s), and the number of countries where they have a physical presence.

**Sensing**

Sensing refers to the perceptions of market-related external stimuli both at the firm level and at the individual level by firm founders and managers. Although there is some overlap, the entrepreneurship literature and the international business literature tend to emphasize different aspects of sensing. The entrepreneurship literature, for the most part, focuses on the earliest days of the firm and so emphasizes individual-level perceptions relevant to developing an initial opportunity. In contrast, the international business literature tends to take a domestic presence as given, and focuses on the firm-level sensing of new markets that will enable the firm to grow. The international entrepreneurship literature falls somewhere in between, emphasizing network partners and market entries.

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<tr>
<th>Table 10.1 Key concepts relevant to eINVs identified from the literature review</th>
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<td><strong>Bodies of literature</strong></td>
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<td><strong>Entrepreneurship</strong></td>
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**Figure 10.1** Capabilities enabling the success of eINVs

Coviello and Jones 2004; Dimitratos and Jones 2005; Fischer and Reuber 2008; Jones et al. 2011; Staal et al. 2005), but little research has focused specifically on eINVs (cf. Reuber and Fischer 2011b). From a theoretical perspective, there is reason to believe that the internationalization of eINVs is enabled by somewhat different factors than those of INVs. INV-related theory and empirical research is based on the resource limitations of young firms and on how factors such as internationally experienced founders and partnerships help to overcome them (e.g., McDougall et al. 1994; Oviatt and McDougall 1994). However, these factors seem to be insufficient to account for the trajectories of many successful eINVs. Those that survive tend not to be poor for long. For example, Airbnb was founded in 2008, received $7.8 million in outside financing within two years (Airbnb 2013a), and, by 2011, supported 16 languages and 17 currencies, operated in 192 countries, and attracted 75 percent of users from outside their domestic market (Airbnb 2013b). Skype was founded in 2003, received $18.8 million in outside financing in its first year (Index Ventures 2004), and by 2005 was operating in 225 countries (eBay Inc. 2005). In both cases, early funding was explicitly aimed at international expansion. These anecdotal examples suggest that it is valuable to examine eINVs separately from INVs, rather than merely assuming they are a subset of INVs. It is for this reason that we go beyond international entrepreneurship theory in examining the phenomenon, and take into account theoretical developments in the field of entrepreneurship, focusing on startup processes and choices; and international business, focusing on geographic expansion processes and choices.

In this chapter we focus on capabilities rather than resources, and describe an integrated framework of three "S" capabilities that underlie successful eINVs: sensing, scaling and spreading. These are shown in Figure 10.1. At the core is sensing, or the ability for firm managers to perceive how market-related external stimuli can be used to develop international opportunities. Once opportunities are sensed, eINVs need to be capable of exploiting them through scaling, which is the rapid expansion of operations in terms of volume, value or scope. Effective scaling is necessary for value creation because it enables economies of scale to be realized and network effects to be capitalized on. Scaling, in turn, creates the need for the capability of spreading, or developing awareness of the eINVs existence and appreciation of its offerings across a geographically dispersed base of online stakeholders. This capability is critical because eINVs lack the physical drivers of demand that are sparked by material proximity, yet must develop awareness and attention among distant audiences (Kotha et al. 2001).
### Table 10.2: The eINVs used as examples in this chapter

<table>
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<tr>
<th>Company</th>
<th>Founding year/place</th>
<th>Description</th>
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<tr>
<td>AirBnB</td>
<td>2008: San Francisco, USA</td>
<td>Online market for accommodation and exchange of properties</td>
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<tr>
<td>Alibaba</td>
<td>2003: Hangzhou, China</td>
<td>Online market for small and medium enterprises</td>
</tr>
<tr>
<td>Amazon</td>
<td>1994: Seattle, USA</td>
<td>Online retailer with a wide range of products and services</td>
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<tr>
<td>eBay</td>
<td>1995: San Jose, CA</td>
<td>Online auction site for various items</td>
</tr>
<tr>
<td>Electronic Mall</td>
<td>1999: Yiwu, China</td>
<td>Online selling platform for small and medium enterprises</td>
</tr>
<tr>
<td>Freeclicks</td>
<td>2000: Toronto, Canada</td>
<td>Online deal-of-the-day website for deals and sales</td>
</tr>
<tr>
<td>Groupon</td>
<td>2005: Boston, USA</td>
<td>Online marketing and web analytics</td>
</tr>
<tr>
<td>Hubspot</td>
<td>2000: Cambridge, MA</td>
<td>Digital marketing and lead management platform</td>
</tr>
<tr>
<td>IAC</td>
<td>1994: San Diego, CA</td>
<td>Online payment processing for internet commerce</td>
</tr>
<tr>
<td>LinkedIn</td>
<td>2003: San Francisco, CA</td>
<td>Online professional networking platform</td>
</tr>
<tr>
<td>Microsoft</td>
<td>1975: Seattle, USA</td>
<td>Online retailer in customized software</td>
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<tr>
<td>PayPal</td>
<td>1999: Palo Alto, CA</td>
<td>Online banking and payment services</td>
</tr>
<tr>
<td>Pinterest</td>
<td>2008: San Francisco, CA</td>
<td>Online tool for collections</td>
</tr>
<tr>
<td>Skype</td>
<td>2003: Luxembourg, LU</td>
<td>VOIP software and services</td>
</tr>
<tr>
<td>Twitter</td>
<td>2006: San Francisco, CA</td>
<td>Online microblogging service</td>
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*Note: The list includes examples used throughout this chapter, but it is not exhaustive.*

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**Entrepreneurship Literature**

Much of the entrepreneurship literature on the sensing of opportunities assumes either that entrepreneurs recognize opportunities that exist exogenously or that entrepreneurs create opportunities endogenously (Alvarez and Barney 2007). A discovery, or opportunity recognition, approach is predominantly cognitive in nature and involves two perceptions on the part of an entrepreneur: first, that an opportunity exists due to changes in the environment, and second, that the firm has the means and motivation to act on it (McMullen and Shepherd 2006). Through experience, entrepreneurs develop cognitive frameworks that impact whether and how they perceive opportunities from external stimuli (Baron and Edelman 2006), as well as cognitive processes that enable them to draw on past market experiences when reasoning about possibilities for new technology (Görgen et al. 2018).

In contrast, an opportunity creation approach is predominantly action-oriented, in that opportunities are viewed as being created endogenously by the actions and interactions of entrepreneurs in a market. In particular, electogenesis theory holds that opportunities are created by entrepreneurs increasing their stock of knowledge and resources through commitments from market actors such as partners and early customers (Read et al. 2009; Sarasvathy 2001). Thus, sensing in opportunity creation is closely intertwined with both scaling and spreading, as all three aspects are iteratively involved in building opportunities.

A close embeddedness of sensing, scaling and spreading is characteristic of recent perspectives on opportunity that encompass a duality of recognition and creation. For example, Cornelissen and Clarke (2010) argue that entrepreneurs use exogenetically based inductive analogical reasoning when starting a venture (the recognition aspect) and that these analogies facilitate comprehension and justification of the venture for resource-providers in the market (the creation aspect). From a practice perspective, the lean startup methodology popular among internet-based startups (Ries 2011) emphasizes the articulation of hypotheses about a venture’s target market and value proposition (the recognition aspect) and the empirical testing of these hypotheses in the market aimed at acquiring stakeholder commitment to the venture (the creation aspect). We therefore consider the sensing of the opportunities associated with eINVs as involving both individual-level cognition and firm-level venture development activities associated with scaling and spreading.

Although an individual’s experience as a source of information (and cognitive biases) underlies much of the literature on entrepreneurial opportunities, this body of research also highlights other sources of information, particularly social sources, which are relevant to opportunity recognition and creation. Such sources include user communities (e.g., Shah and Tiwary 2007), mentors, industry networks and professional forums (e.g., Onggen and Baron 2007), and feedback from potential customers and partners (e.g., Read et al. 2009; Ries 2011). This knowledge is often acquired from the internet itself and so may be socially sourced, but at a distance (Presthathan 2005). For eINVs, the sensing of the potential of emerging technologies, both at startup and on an ongoing basis, is expected to be particularly important, given the continual changes in networks, devices, operating systems, application services and cloud computing (OECD 2012: 61–80); however, this aspect of sensing has not been emphasized in the literature.

**International business literature**

In contrast to the entrepreneurship literature, which focuses on the level of the individual entrepreneur and the founding management team in sensing, the international business literature, in general, focuses more at the level of the firm. This difference in the level of analysis is consistent
with the entrepreneurship literature's primary interest in explaining the development of early stage opportunities, and the IB literature's primary interest in explaining foreign market entries subsequent to a domestic presence. A particularly relevant stream of this literature for eINVs is concerned with the sequencing of foreign market entries.

A long-established perspective on internationalization is that expansion into foreign markets requires knowledge accumulation through firm-level experience (Johanson and Vahlne 1977; 2009). Successful internationalization is seen as incremental, from culturally similar to dissimilar markets, and from low-commitment entry modes like exporting to higher commitment entry modes like establishing a subsidiary, in order to minimize the uncertainty associated with foreign market entry. This is consistent with a study of early internet-based firms from the US which found that a greater cultural distance between the US and a potential host country is associated with a lower likelihood of entering that country (Rothaermel et al. 2006). It should be noted, however, that the negative relationship found between cultural distance and likelihood of entry was positively moderated by market size, indicating that firms were more motivated to overcome the risk of cultural distance when market returns were expected to be higher.

The impact of learning from experience in other markets is affected by multiple factors. When firms are new to a dissimilar culture, they can draw erroneous conclusions. This "incorrect learning" has been shown to be aggravated by a fast pace of foreign expansion (Zeng et al. 2013), which is typically characteristic of rapidly growing eINVs. However, if a firm has a technological advantage, and sets standards and trends, it has fewer challenges - and therefore lower learning needs - in distant markets (Bansal and Dhanaraj 2013). This can be an advantage for those eINVs which benefit from herding behaviour, and a concomitant early dominance, in their market (cf. Duan et al. 2009). Nevertheless, there are increasingly complex information-processing demands on a firm as the number of foreign market increases, which have been found to result in an inverted U-shaped relationship between international diversification and firm performance (Hitt et al. 1997). However, this relationship has not yet been tested in the context of eINVs.

Firms can acquire knowledge about the potential of foreign markets from diverse sources: current customers and domestic competitors (Martin et al., 1998), companies in the host country (Salomon and Wu 2012), and network partners (Johanson and Vahlne 2009). An additional source of knowledge that is expected to be particularly important for eINVs is venture capital firms, which are increasing their international investments (Furrer and McDougall-Covin 2009; Guler and Guillén 2010; Humphrey-Jenner and Suchard 2013). Indeed, new eINVs that are initially located for that relocate early on close to Silicon Valley, with its internet-related expertise and financing power, are likely to enjoy a location-based advantage (cf. Dunning 2009). There is a lower requirement to acquire market-specific knowledge in global industries than in multinational industries because there is less pressure to conform to local preferences, practices and regulations (Kohlin 1991; Ruster 1986), and a logical implication of this argument is that eINVs operating in global market niches have less need to acquire local information than those operating in multinational market niches.

**International entrepreneurship literature**

Although the international entrepreneurship literature has a wide scope, here we examine two specific aspects of new ventures - network partners and market entries - that have been central to the field since its inception (McDougall et al. 1994; Oviatt and McDougall 1994). Both are relevant to an eINV's sensing capability.

Networks are an important enabler of early and extensive internationalization (Coviello 2006; Coviello and Mizruchi 1997). Bell and Loane (2010) emphasize the importance of partnerships in providing eINVs with both online distribution and physical distribution in distant markets. We contend that establishing such partnerships is part of the opportunity creation process for eINVs. This is consistent with research showing that rapid internationalization involves a path-dependent process of opportunity development encompassing learning through experience and exposure to new information and network ties (Chandra et al. 2012; Mathews and Zander 2007). However, network ties tend to be bounded by geography and cultural distance, which can expand or constrain the opportunities an entrepreneur can perceive (Chandra et al. 2012; Ellis 2011). In addition, the necessity for speed given competitive pressures (cf. Loane et al. 2004) and herding behaviors (cf. Duan et al. 2009) in internet markets can limit the available time and attention that managers can devote to developing the trust required for effective networks (cf. Johanson and Vahlne 2009; Rangan 2000). This suggests that it can be difficult for entrepreneurs founding eINVs to integrate foreign partnerships into the construction of their venture without access to globally connected social capital (cf. Prashantham and Dhanaraj 2010). Indeed, Fernhaber et al. (2009) found that new ventures whose management teams had limited international experience benefited most from external knowledge sources, such as alliance partners and venture capitalists, and we expect this to be especially true for eINVs.

The international entrepreneurship literature also indicates that the nature of market entries affects the sensing capability of eINVs. Recent literature at the individual level suggests that reasoning about internationalization decisions is based on experientially developed heuristics or analogies (Jones and Cassell 2014). At the firm level, there is evidence to suggest that INVs should enter foreign markets, and diversified foreign markets, quickly after startup to enhance learning capabilities in general (Autio et al. 2000) and technological learning in particular (Zahl et al. 2000). However, it is important to note that these learning advantages of newness have not been studied in the context of eINVs. Tamin and Sinkovics (2006) warn against a 'virtuality trap', the perception 'that the learning generated through virtual interactions obviates the need for learning about the target markets through non-virtual means' (2006: 340). It may be the case that as some eINVs internationalize quickly and widely, they become more reliant on online data and more susceptible to the virtuality trap, which constrains the extent to which they can learn about distant markets. This is expected to be particularly true for eINVs that have only a minimal physical presence outside their home country.

The international entrepreneurship literature also points out that while some foreign market entry is deliberate and intentional, it is often unplanned due to serendipitous encounters (e.g., Crick and Spence 2005). Petersen et al. (2002) point out that setting up a website can render a firm more visible to foreign partners and customers, leading to more unsolicited orders, and more numerous, faster and ad hoc entries. Such serendipity may be dysfunctional: Bingham's research (2009) suggests that a deliberate, coherent selection of markets is preferable, because it enables managers to build their experimental base of knowledge, from more similar markets to less similar markets, and from smaller, less visible markets to larger, more visible markets. We do not yet have an understanding of how eINVs are best served by either approach. The first strategy (expanding as fast as possible) may be advantageous when there is herding in the market and the size of a firm's user base is an important criterion on which a firm's value is based. The second strategy (a planned sequence of entries) may be preferable when there is greater offline activity associated with a firm's business model, such as, for example, a large number of people selling local advertising or attracting local merchants.
Scaling

Scaling refers to an eINV’s ability to configurationally enact and manage rapid international growth through expansion of operations in terms of volume, value or scope. Considering that internationalization is a costly pursuit affected by time compression diseconomies (Jiang et al. 2014) and that growth and survival can be competing objectives for young international firms (Sapienza et al. 2006), it might be puzzling that eINVs would pursue rapid growth. Below we draw on the entrepreneurship, IB and IE literatures to address this puzzle and to explain how rapid scaling may be achieved.

Entrepreneurship literature

Having something worth expanding is a necessary prerequisite for effective scaling. By focusing on the question of how an organization may configure itself to best extract value, the entrepreneurship literature draws our attention to the scaling of a firm’s business model (Zott and Amit 2007; Bock et al. 2012; George and Bock 2011; Chittil et al. 2010; Teixeira 2010). Following George and Bock (2011), we define a business model as an “organization’s configuration enactment of a specific opportunity” (2011: 102). The business model literature argues that the process of modeling involves purposeful weaving together of activities into a structure that explains what the firm does and how it extracts value, and that this process begins with the question of the value proposition itself (Zott et al. 2011). Zott and Amit (2007) draw a useful distinction between novelty and efficiency as sources of value. Novelty-oriented models exploit new ways of conducting transactions ‘by connecting previously unconnected parties, by linking transaction participants in new ways, or by designing new transaction mechanisms’ (2007: 184). Mackenzie and its business model, which straddles toys and entertainment categories, represents a case in point. Founded in 2011, the London-based firm exploits a technological capability of converting digital game objects into physical toys to enable its customers to co-create customizable toys on demand, thus offering an innovation in the process of toy production. By contrast, efficiency-centered business models rely on doing things in a more efficient way. For example, Blue Nile exploits inefficiencies in the global diamond industry value chain and adopts a made-to-order logic to implement direct online sales of diamond jewellery to consumers. This business model research suggests that, like any other entrepreneurial venture, eINVs need to have either innovative novelty-centered or innovative efficiency-centered business models if they are to be able to scale effectively.

Further, eINVs are distinguished by the complex and unusual ways that value may be extracted and captured (Teixeira 2010), and an important aspect of this is their digital platform. Research on platform-mediated markets (Adomavicius et al. 2007; Parker and Van Alstyne 2008; West 2003) draws attention to the difference between platform and product strategies, where platforms are technology or service foundations that facilitate interactions between different users (Eisenmann et al. 2011). Gaver and Consomano (2008) argue that while product strategies rely on value extracted from transactions with end users, platform strategies capitalize on complex arrangements involving a broad range of stakeholders and partners. End users typically expect the service to be free (Teixeira 2010) and the goal of the platform is to provide an independent ecosystem that enables charging of other platform participants (Parker and Van Alstyne 2008). Online search engines like Google, for example, allow non-paying users to access the platform for free because revenues are extracted from fee-paying advertisers. Platforms can therefore exploit network effects and achieving platform status often involves winner-takes-all battles (Lee and Mendelson 2008), whereby a new platform replaces an older one (e.g. Facebook replacing MySpace).

The value of a platform depends on the number of users, and so rapid growth is achieved through employment strategies involving complements, substitutes or functionally unrelated products (Eisenmann et al. 2014).

Platform ecosystems are subject not only to ongoing battles for scale, they are also subject to constant change (Lee and Mendelson 2008). Ever-changing technologies, aggressive competitors and contested norms mean that the ability to adjust continuously represents an important strategic capability (Rindova and Koths 2001) trace the evolution of two eINVs and show that such hypercompetitive environments impose continuous change to firms’ business models. They conclude that flexible arrangements of resources and structures are needed for constant readjustment. Their findings seem to support the notion that structural inertia and rigidity are disadvantageous in rapidly changing environments (cf. Sapienza et al. 2006) and that reliance on resources such as partners actually reduces strategic flexibility during business model innovation (Bock et al. 2012). This contrasts with the tenet of the IE literature that emphasizes the benefits of partners to new ventures. Overall, the research on platforms helps to explain why rapid geographical expansion represents a strategic imperative for at least some eINVs, an imperative that seems to override the concerns of profitability.

International business literature

An effective business model is a necessary but not sufficient condition for scaling: what distinguishes scaling from other forms of opportunity exploitation is the explicit emphasis on rapid expansion and enlargement of the opportunity. The question of how a firm may scale up its operations by entering foreign markets represents the very cornerstone of international business strategy and so the IB literature offers valuable insights on eINVs pursuing international expansion. There is a rich tradition in IB research concerning the interplay between a firm’s technology and the pattern of its international growth (Buckley and Casson 1976; Rugman 1981). It holds that large multinational firms exist because alternative means of organizing international transactions such as markets, alliances or partnerships are less desirable, and this is particularly true when proprietary technology is at play (Rugman and Verbeke 2004), as is often the case for eINVs. Moreover, we expect that eINVs use information and communication technologies effectively, which lowers the informational, communication and administrative costs of internationalization (Buckley and Casson 2009; Rangø and Sengul 2009). Thus, we expect that greater internalization distinguishes eINVs from other INVs that prioritize control, rather than ownership, of resources (cf. Oviatt and McDougall 1994).

Recent studies on trade theory in IB provide an additional insight into the link between a firm’s technological advantage and its internationalization (Melitz 2003; Nocke and Yeagle 2007). A premise of this literature is that when technology is highly sophisticated and valuable, it is for many eINVs, the technology itself may facilitate rapid international growth. Nocke and Yeagle (2007) argue that as technology becomes more sophisticated, its imitation by competitors decreases, and the firm becomes a standard setter. The establishment of a standard reduces the need to adapt to local markets, which in turn reduces the cost of internationalization (Nocke and Yeagle 2007). It is worth noting that the focus on standards in trade theory complements the research on platforms (Eisenmann et al. 2011; West 2003). If global consumers become locked into a firm’s technology because it constitutes a standard (cf. Amit and Zott 2001), it will be easier for that firm to deter local competition in distant markets, thereby accelerating its internationalization.
The final insight from the IB literature concerns replication as a distinct scaling mechanism for international expansion (Jonsen and Foss 2011). Unlike innovation, which involves flexibility and change, replication relies on leveraging existing routines and organizational rigidities (Friel and Larry 2013). The logic of replication assumes that rather than following a slow process of learning and change in the process of international growth (Vermue and Barten 2002; Johanson and Vahlne 1977; 2009), organizations may standardize, fix and then replicate parts of its value chain (Winter and Szulanski 2001). The German digital content provider Jamba! and its template-based internationalization clearly illustrates this principle (Kauffman et al. 2006). During its expansion into European markets in 2003, Jamba! developed a ‘country launch manual’ where each foreign market entry strictly adhered to four detailed steps: linking to an aggregator, preparing content, implementing media plan and administering the launch. The exploitation of the standardized pattern enabled the venture to enter 12 countries and more than quadruple its workforce in the time span of 12 months.

A narrow value proposition, a narrow product line, and a need to mass distribute the end product are characteristics that favour replication (Jonsen and Foss 2011). Huddles, a London-based venture established in 2006, offers an illustration. By concentrating on a narrow set of functionalities (document sharing and collaboration solutions for larger enterprises), the venture was able to standardize and rapidly scale up its operations to span 180 countries by 2012 (Financial Times 2012). The example of six-year-old MyMushi, a German online firm that offers customized cereal boxes, demonstrates that replication may also be beneficial in consumer markets.

Empirical studies on replication show that in order to replicate, routines need to be made explicit and formatted into guidelines or manuals (Jonsen and Foss 2011). In other words, successful replication relies on the ability to effectively code and encode the business format to convert it into practice (Szulanski 1996; 2000). The examples above show that digitization of a firm’s offering seems to favour replication. By virtue of being online, eINVs are firms with significant parts of the business process digitized, and therefore already encoded (Kalliovirta 2009). We therefore expect replication to be particularly advantageous as a method of scaling for eINVs.

**International entrepreneurship literature**

The IB literature holds that the rapid internationalization of young firms is possible because access to resources is explicitly differentiated from, and prioritized over, ownership of them (Oviatt and McDougall 1994). Given that scaling requires resources, the resource access mechanisms identified in the IB literature (such as partnerships) are relevant to scaling. For example, many eINVs rely on financial resources provided by external partners, typically venture capitalists. Evidence shows that external financing facilitates international growth by allowing a more aggressive approach to be adopted (McDougall et al. 2005), which enables a broader scale and scope of foreign market entry (George et al. 2005). The knowledge and reputation of external stakeholders can also support scaling (Fennha fer and McDougall-Coon 2009). The role of external stakeholders is yet to be examined specifically for eINVs, but the track records of well-known eINVs provide strong evidence of their need for, and their ability to attract, resources that facilitate the scaling capability.

**Spreading**

The third capability we consider is ‘spreading’, which refers to developing awareness of an eINV’s existence and appreciation of its offerings across a geographically dispersed base of online stakeholders. Given that eINVs lack the driven supply that are sparked by proximity, how can these ventures with limited track records build both awareness and positive affect in short order?

This challenge is particularly difficult given that competition for online attention and affiliation is intense (cf. Humphreys 2013; Wang et al. 2013). In this section, we scan the entrepreneurship, IB, IE and e-marketing literatures to illuminate how eINVs can meet this challenge.

**Entrepreneurship literature**

Two streams in the entrepreneurship literature offer insights that could apply to eINVs seeking to spread awareness of, and appreciation for, their offerings. The first examines how startups leverage their affiliations with other parties, such as partners, investors, and customers (e.g. Deutsch and Ross 2003; Reuber and Fischer 2005; Shane and Cable 2002; Smart et al. 1999). Studies in this stream show that aspiring stakeholders exposed to information that links a startup with an established and reputable entity, such as a prestigious investor or a blue-chip customer, are likely to regard that startup as more credible than one that lacks such affiliations (Fischer and Reuber 2007). Reuber and Fischer (2005) also note that when new firms can publicize their affiliations with particular types of customers, they can also create awareness of the range, size and segments of customers they are able to serve. This is relevant to those eINVs that can showcase endorsements from customers based in diverse geographic regions because they can signal to prospective clients that they are capable of serving international markets.

The second stream in the entrepreneurship literature deals with narratives (Martein et al. 2007) or symbolic communication practices (Zott and Huy 2007) that new firms can use to increase their perceived legitimacy and reputation in the eyes of stakeholders. Aldrich and Fiol (1994) were the first to draw attention to how entrepreneurial firms can deploy selected symbolic practices and narrative tactics to encourage stakeholders to regard them favourably. In a study of narratives in IPO prospectuses, Martein et al. (2007) found that portraying entrepreneurial firms as aspiring leaders with track records had a positive impact on the valuation premia at IPO, but portraying them as aspiring leaders with social ties or conveying ambiguous identity narratives both had a negative impact on valuation premia. Further, in a study of symbolic practices of new firms, Zott and Huy (2007) found that impactful communications included, for example, those conveying the entrepreneur’s personal credibility (e.g. displaying educational credentials), those indicating the organization’s capability for professional organizing (e.g. maintaining a highly functional website), and those signaling the organization’s achievement (e.g. publishing awards won). The specific types of symbolic communication practices or narratives that will lend credibility to eINVs may differ from those appropriate for other new ventures, given that different genre conventions (e.g. Orlikowski and Yates 1994) may dominate in the online communication platforms on which eINVs rely; however, the premise that some narratives are more effective than others for engaging stakeholders appears likely to hold for eINVs.

**International business literature**

International business scholars have asserted that in order to gain international awareness and attention, businesses must leverage their home-market reputations (e.g. Kohs et al. 2001: 772). The logic is that firms that are prominent and well-regarded in their home environment can take advantage of their reputational assets because potential stakeholders in foreign markets will already know and be favourably disposed toward the firm. However, eINVs may have no home-market track record to draw on, making this aspect of the international business literature of limited relevance.
A second strand of the international business literature, one that might be more applicable to eINVs, debates the adaptation versus standardization of marketing strategies for communicating with stakeholders in diverse geographic regions (e.g., Cavusgil et al. 1993; Levitt 1983; Samiee and Roth 1992; Wind 1980). This literature has evolved toward a contingency perspective, advocating that the advisability of adaptation depends on, for example, the company, physical product, and targeted export market characteristics. Cavusgil et al. (1993) argue that firms should adapt their positioning, packaging/labelling and promotional approaches when they have high export sales goals and unique products, as is the case with eINVs. However, they also argue that firms should not adapt their positioning, packaging/labelling and promotional approaches when they are selling technology-intensive products and targeting multiple export markets simultaneously, as is also the case with eINVs. Thus at present it remains unclear what contingent conditions eINVs should adapt rather than standardize the tactics they use to spread awareness and gain positive effect toward their offerings.

International entrepreneurship literature

This body of work overlaps with both of those already reviewed, but studies specifically focused on INVs provide some distinct, and valuable, insights. Several INV articles indicate that leveraging the resources (including, but not limited to, reputation) of international stakeholders with whom the firm is affiliated can help a startup spread its global visibility and credibility (e.g., Altchuler and Tarnovskaya 2010; Covello and Munro 1997; Gabrielsson 2005; Gabrielsson and Gabrielsson 2003; Gabrielsson and Kirpalani 2004). Co-branding is a form of cooperation between firms in which the brand names of both are exposed to their joint customer base (Blocket and Boad 1999). PayPal is an eINV that achieved significant international spread by virtue of its brand alliance with the more established firm, eBay, that featured PayPal as a payment option on its website. So successful did PayPal’s “spread” become that eBay ultimately bought the company and shut down development of a competitor (Fichter and Reuber 2007).

The INV literature also highlights that new firms can leverage international forums to achieve spread (e.g., Gabrielsson 2005), as they reach well beyond a domestic audience. International trade shows are one such type of forum. To illustrate, the eINV Freshbooks takes advantage of the annual SXSW trade show to achieve spread among the segment of potential customers who attend the music, film and interactive gaming event. Online markets are another type of international forum of value to small eINVs. For example, the online market download.com provides an international platform for many eINVs selling software (e.g., Reuber and Fischer, 2009). While not every eINV competes in an industry that features such international forums, those that do can accelerate spread by taking advantage of them.

E-marketing literature

A growing body of marketing studies examine how firms can broaden their reach online. Most research thus far on successful online ‘spreading’ has been conducted for established companies selling consumer goods (e.g., Fournier and Avery 2011), though a few have considered new and/or B2B firms (e.g., Ashworth et al. 2006; Fischer and Reuber 2014). As of yet, none have considered how new online firms can increase awareness and appreciation among international audiences; however, two related threads in this work are useful for understanding eINVs. The first thread focuses on networks that emerge (or that can be created) among online stakeholders and how these may benefit firms. Numerous studies have discussed online ‘communities’ or collectives of people who share an interest in products categories (such as smartphones, e.g., Kosinski et al. 2010) or brands (such as Star-Vector, e.g., Schau et al. 2009). Evidence indicates that, in such online networks, members frequently share information and opinion about specific companies and offerings, since participants derive value from doing so (Schau et al. 2009). Some firms have tried to accelerate communication about their own brand within existing communities, while others have tried to create new online communities by promoting Facebook fan pages or company Twitter accounts (e.g., Dhokalia and Durham 2010). Although certain studies indicate that firms can benefit from these efforts, others note that firms may face backlash and hostility from online community members if their efforts are too explicitly sales oriented or if interactions that express negative sentiments are censored (e.g., Fournier and Avery 2011).

Some eINVs have nonetheless managed to achieve spread effectively via online networks. For example, despite initial skepticism about a user-generated innovation, the ‘hashtag’ symbol (#) that allowed users to assign a topic to their posts in the micro-blogging website Twitter, executives ultimately recognized and harnessed the potential inherent in communities of interest that clustered around hashtags to increase levels of awareness and usage among geographically dispersed users. By making it easy to search for and find posts about hashtagged topics on Twitter (for example, during political uprisings such as those in Iran or during natural disasters such as the earthquake in Haiti, both in 2009) Twitter not only enabled existing users to communicate with one another, it also enabled new users to find others who shared similar interests. Twitter’s fame and user base also spread because of the publicity that ensued when mainstream media realized the role Twitter could play in facilitating communication among citizens at critical times in critical places (Bilton 2013). While this example is a vivid one, it begs the question for eINVs of less clarity as to what tactics are effective when they attempt to cultivate spread in online communities that include stakeholders from disparate cultures with disparate needs and perceptions.

The second practice highlighted by the e-marketing literature entails harnessing the massive volumes of data that the firm may be able to glean from monitoring online behaviors of its customers. The OECD (2012) refers to this as ‘social customer relationship management (social CRM)’ and defines it as ‘the use of social media services, techniques and technology by organizations to actively engage with customers’ (p. 77). One example of such social CRM is ‘suggestive selling’, which refers to the practice of recommending products to a prospective customer based on perceived similarity with the detected purchase or preference patterns of prior customers. eINVs with the capacity for capturing and analyzing the data that online selling to abundantly affords can develop customized recommendations (Barratt and Echebarria 2007) and even highly customized product offerings (cf. Bell and Loane 2010). Amazon’s practice of recommending books purchased by readers with similar patterns of interest illustrates this suggestive selling approach.

Discussion

Having considered how prior research and theory illuminate the capabilities that matter for eINVs, we now highlight a number of research questions that seem particularly relevant for eINVs and yet are not addressed by prior research. These research questions are not specific to any one capability discussed above, but rather span two or more.

The first research question we identify concerns how eINVs can reconcile the requirements of scale and international diversity, yet retain a competitive advantage over time, given that complexity escalates as firms do business in multiple, increasingly diverse, foreign markets. An approach to addressing this question would be to identify the conditions under which there is an inverted U-shaped relationship between international diversification and firm performance.
among eINVs, a relationship that has been found for manufacturers (e.g. Hitt et al. 1997). While some eINVs may be able to target an ever wider array of new countries without encountering a point beyond which it becomes decreasingly profitable, we expect that many will face limits to business model scalability given demands for local isomorphism (Salomon and Wu 2012) and local partners (Johnson and Vahale 2009). Early in their history, eINVs may be able to avoid this variability if their opportunity is constructed around a narrow, homogeneous target market and a value proposition that enables scaling and spreading. However, as competitors enter the market and as the management team looks for product diversification opportunities, there may be pressures to widen both the value proposition and the target market in order to expand the functionality of the market offering.

A second research question concerns the differences in the sensing and spreading capabilities required depending upon the eINVs method of customer acquisition and revenue generation. Firms that primarily acquire customers offline (e.g., Groupon’s acquisition of merchants and HubSpot’s acquisition of customers) may require different sensing and spreading capabilities than those that primarily do so via online ’self-service’ (e.g., Twitter). Similarly, the sensing and spreading capabilities required by eINVs that rely primarily on advertising revenue (e.g., Facebook) may differ from those that rely primarily on customer payments (e.g., Freshbooks) because of the local nature of such advertising. eINVs that acquire customers offline, as well as those that rely on customers for revenue, may need to commit to a physical presence in local markets, and so the sensing and spreading functions may need to be isomorphic with companies in those local markets (cf. Salomon and Wu 2012). However, the extent to which this is the case, and the extent to which this affects scalability, are topics that require empirical investigation in the future.

A third research question is: when is it beneficial for an eINV to have an online intended market image (cf. Brown et al. 2006: 103) that is global vs. multi-domestic? There is variation in practice. For example, Pinterest, a multi-billion dollar eINV, makes no mention of its international activities on its website, while Airbnb, another eINV with a valuation exceeding $10 billion, emphasizes them. DesignCrowd has different domain names for different countries, and there is an Australian accent in the how it works video on the .com.au website, a British accent on the .co.uk website and an American accent on the .com website. In contrast, Sellahand, another crowdsourcing eINV, has a single English website. Amazon has 10 country-specific domain names, Skype has websites in over 25 languages available at a single .com domain name, and Twitter is available in more than 20 languages by changing user preferences at the single domain name. A related question is: when is it desirable for eINVs to emphasize an image based on their country-of-origin (e.g. Gurbani-Canli and Maheshwari 2000). For example, Alibaba emphasizes its Chinese origins and presence which highlights the vast number of manufacturers that global buyers can connect with. However, it may be desirable for eINVs to hide their country-of-origin if it is associated with negative stereotypes (Reuber and Fischer 2012). These observations indicate that we require research to understand the contingencies that matter to which kind of spread-related capabilities an eINV should seek to build, and how the types of spreading capabilities impact the sensing and scaling capabilities required. We also point out that scholars should be aware of the variation in practice, and the reasons behind this variation, when using indicators such as website-based languages or the number of country-specific domain names as measures in empirical research.

A fourth potential area for investigation concerns the interplay between the pace of international expansion and firm-level learning. Both the IE and IB literatures maintain that international experience accumulates over time and that time compression (a more rapid pace of internationalization) may inhibit learning (e.g. Zeng et al. 2013) and have a negative impact on performance (e.g. Jiang et al. 2014; Vermeulen and Barkman 2001; 2002). Given this evidence, how do some eINVs manage to internationalize at unprecedented speed, seemingly without the opportunity to learn through experience? A contrasting view is that when a business is radically innovative, prior learning may be of little relevance and there can be a risk of either knowing the wrong thing or learning incorrectly (Zeng et al. 2013). Further, it may be that for the eINVs that are pioneers in homogenous global markets (for example, DropBox), local conditions may be of little relevance, rendering rapid, profitable internationalization possible. In general, further research is required to understand the factors that may enable eINVs to overcome liabilities of foreignness at unprecedented speed.

Finally, it is worthwhile to note the similarities and differences between our sensing-scaling spreading framework of eINV capabilities and Teece’s sensing seizing reconfiguring framework of dynamic capabilities for sustainable superior performance (2007). We use ‘sensing’ similarly to Teece; we emphasize the need for ‘scanning, creation, learning, and interpretative activity’ (2007: 1323) in markets that are in constant flux. Teece’s seizing function is applicable to eINVs, but because of our more narrow focus, we concentrate here more narrowly on the scaling and spreading aspects of seizing an opportunity because they are uniquely crucial to digital firms. We expect reconfiguration – the ability to maintain evolutionary fitness and, if necessary, to try and escape from unfavorable path dependencies (2007: 1339) – to be applicable to eINVs, as they are to any organizations, on the one hand. On the other hand, however, we see two potential differences in this context. The first is that digital artifacts are inherently unstable and easy to modify (Kallinikos et al. 2013), and so reconfiguring the routines of eINVs is likely to be substantially different than reconfiguring the routines of INVs. Second, the need for reconfiguration may be different for eINVs that benefit from hedging behaviour, and early dominance of their market, than for those that do not. Although prior research indicates that platform ecosystems are subject to constant change (Lee and Mendelson 2008) and business models of internet-based businesses evolve continuously (Kibodha and Kohta 2001), dominant eINVs such as Facebook, Twitter, eBay and Amazon have grown and internationalized with remarkably little change to their core nature. This suggests that these may be beneficial path dependencies for eINVs. For these reasons, we believe that the reconfigural aspects of eINVs represent a fruitful direction for future investigation.

We conclude our chapter by stressing once more that it is timely and important to think about, and to study, eINVs systematically. As we pointed out in our introduction, eINVs are a growing force in the global economy, which offers a pragmatic rationale for studying them carefully. A more theory-relevant reason for studying eINVs is that in doing so, our understanding of the nature and dynamics of international new ventures at a whole could be revised and expanded. For instance, as some of the examples here indicate, eINVs may be able to leverage sensing, scaling and spreading capabilities to win a major share of a global market in certain ’winner-takes-all’ competitions; that is, they represent cases of international new ventures that rapidly become large and enjoy some advantages of a near-monopoly. This contrasts with earlier work on international new ventures suggesting that they are nearly always small, and that monopolistic advantages theories are therefore inapplicable to them (e.g. McDougall et al. 1994: 472). While observations such as these do not invalidate prior research on INVs, they sensitize us to the possibility that there may be boundary constraints on the applicability of earlier findings, and that our theories of new venture internationalization may need to be adapted to account fully for phenomena such as eINVs. This chapter constitutes a step in that direction.
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Note

1 In this OECD report, the "internet firms" category is broader than our definition of eNVS, and includes firms that earn revenue from (a) internet-based activities; (b) internet intermediation; (c) providing services facilitating internet use; (d) providing internet-based software; (e) providing e-commerce platforms offline (OECD 2012: 45–44).

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Understanding oINs through research


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