“Generational links between entrepreneurship, management and puritanism”

AUTHORS
Ola Honningdal Grytten
https://orcid.org/0000-0003-1416-0980
Kjell Bjørn Minde

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Abstract
This paper deals with relationships between puritanism, management and entrepreneurship. As this is an on-going debate among economic historians, it focuses on the period from the early 1800s until present times, where Norwegian high profile puritan entrepreneurship serves as the case.

The theoretical framework is that entrepreneurship is seen as an important liaison factor representing multifactor productivity in a Solow growth model. The paper provides new insight within different areas on the basis of utilization of available sources. Firstly, it gives new estimates of the entrepreneurship of the puritan leader, Hans Nielsen Hauge (1771–1824).

Secondly, it organizes his followers in three generations. The first is those who directly took up his heritage, i.e. Haugeans. Their heydays lasted until the middle of the 19th century. The second generation is characterized as Haugean descendants. These were highly influenced by the movement’s values. They dominated the scene from the late 1800s to the late 1900s. The third generation is called Neo-Haugeans, largely a fruit of the revival of Haugean values during the last decades.

Thirdly, the paper maps attributes and motivation of this puritan entrepreneurship during generations. The authors conclude that it was guided by high degree of innovation, family ownership, wide portfolios, and continuity, when stewardship seems to be an important motivational factor.

Keywords
management, entrepreneurship, puritanism, economic growth, economic history

INTRODUCTION
During the 1800s, Norway for its first time experienced continuous economic growth. One of the central entrepreneurs in the early 19th century was the lay preacher Hans Nielsen Hauge (1771–1824). Along with his followers, Hauge strongly contributed to modernize industrial activity and society at large (Kullerud, 1996, pp. 8-13).

They emphasized puritan values, like Christian stewardship, hard work and individual responsibility. This inspiration contributed to a diversity of industrial activities. Hauge can be characterized as an industrial, social, political and religious reformator. Additionally, he promoted women's right to participate in the public arena (Haukland, 2014a, pp. 326-339). He was also considered a threat to the establishment (Ravnäsen, 2002).

His movement’s ideas were central elements in the formation of the modern state, local democracy, parliamentarism, equal rights, common rule of law, and market liberalism (Haukland, 2014b, pp. 539-559). They were sceptical to central governance, public spending, exclusive privileges and political and religious enforcement systems (Sjursen, 1997).
1. PROBLEM DEFINED

On the theoretical basis of the Solow growth model and available data as departure, the present paper seeks to focus on three central issues connected to the industrialism of the puritan movement.

In the first place, it offers a new quantitative assessment of Hauge's industrial and financial engagements. Secondly, it organizes his followers into three generations or waves of entrepreneurship. Thirdly, it seeks to map characteristic attributes of industrial management of these three generations.

2. THEORETICAL FRAMEWORK

2.1. Solow growth model

Growth accounting divides economic growth into two parts. The first part can be attributed to the production factors, including labor and capital, and natural resources. The second part is multifactor productivity (MFP), which consists of qualitative factors such as technology, institutions, frameworks, and composition of inputs and organization of production. Thus, production can be stated as function of capital $C$, labor $L$, and multifactor productivity $A$ in a certain period $t$:

$$ Y_t = A_t F(C_t, L_t). $$

The input factors’ share of contribution to production can be expressed as in equation 2:

$$ Y_t = A_t + \alpha C_t + (1-\alpha) L_t. $$

Economic growth can be expressed arithmetically as growth in $Y$ as consequence of growth in $C$, $L$, and $A$, where $\alpha$ denotes share of input contribution to production (Denison, 1967, pp. 278-300):

$$ \frac{\Delta Y_t}{Y_t} = \frac{\Delta A_t}{A_t} + \alpha \frac{\Delta C_t}{C_t} + (1-\alpha) \frac{\Delta L_t}{L_t}. $$

Thus, long-term economic growth is explained by increases in production capacity. The ability to produce decides the production possibility frontier (Solow, 1956, pp. 65-94). Empirical research concludes that MFP is the most important factor for growth. In other words, the efficiency in the composition and utilization of capital and labor is the most important growth factor (Abramowitz, 1956, pp. 5-23).

2.2. Protestant ethics and economic growth

This paper focuses on one of the features of MFP, i.e., entrepreneurial activity. An entrepreneur connects innovation, labor, capital, and markets into new business (Schumpeter, 1939, pp. 41-53). It is difficult to account for the contribution of entrepreneurship to economic growth. However, empirical research confirms its importance, when historical research confirms a link between puritanism and entrepreneurship (McCleary, 2006, pp. 49-72; Young, 2009).

Weber (1905) gave his interpretation on the possible historical linkage between protestant ethics and economic growth. Weber described what he called “the capitalist spirit”, which to a large degree developed from protestant ethics of duty and calling. His theory on the linkage between protestant ethics, entrepreneurship and economic growth is illustrated in Figure 1.

Weber argued that protestant directions, an in particular the puritan movements, were more individualistic in their approach to religion than Catholicism and Orthodoxy. Each individual was made responsible to God and for his or her own salvation; one could neither go via a church nor any rites, but through individual relationship


Figure 1. Weber’s algorithm on link between protestant ethics and economic growth
with God himself. This also influenced moral perceptions. According to Weber, protestant moral attitudes promoted hard work, moderate consumption and individual responsibility.

Protestants also had an individual responsibility to read the Bible. Thus, they set up compulsory schools, and reading skills became superior to everybody else. Individualism, high saving rates due to moderate consumption and reading skills paved the way for entrepreneurship. As a result, profits were reinvested rather than consumed with economic growth. Weber saw the same kind of reasoning within Catholicism and Orthodoxism. However, it was not as widespread and more confined to monasteries: “The puritan wanted to work in calling ... For when asceticism was carried out of monastic cells into everyday life, and began to dominate worldly morality, it did its part in building the tremendous cosmos of the modern economic order. This order is now bound to the technical and economic conditions of machine production, which today determine the lives of all the individuals who are born into this mechanism, not only those directly concerned with economic acquisition, with irresistible force. Perhaps it will so determine them until the last ton of fossilized coal is burnt” (Weber, 1905).

Puritans in the UK and USA were pioneers within the establishment of industry, labor welfare, democracy, human rights and social justice. Recent research has confirmed that they were significantly more likely to pioneer industry during the 18th and 19th century (Emden, 1939; Jeremy, 1988; Iannaccone, 1998; Bremer, 2005).

Lutheran pietists in Germany represented a similar mentality. In France, one finds the entrepreneurship of the Huguenots. In Switzerland, the Netherlands and Scotland, the Calvinists put extra emphasis on ethics of calling. In Norway, one could find an aristocracy of pietists among the hanseatic merchants in Bergen (Kaelber, 2005).

International historical research has chiefly concluded that different directions of protestant ethics, basically represented by puritan movements, have motivated economic, political, social and educational entrepreneurship (Barro, 2003). However, the results are still under debate (Delacroix, 2001).

The link is not evident in Western economies at present times, but it can arguably be seen in developing economies (McCleary, 2006; Young, 2009).

3. DATA AND PREVIOUS WORK

In order to conduct the present study, we need to draw on information from several sources. The most important source for the pioneer time of the movement is a doctoral thesis by Breistein (1953). The aim of the thesis was to do research into the legal process against Hauge on the basis of claims of fraud. In order to do so, Breistein compiled data from business accounts, correspondence and legal negotiation. Rødal and Kiplesund (2009) re-organized this material in order to map financial transactions.

On the basis of their research, one may conclude that Hauge was engaged directly or indirectly in about 150 industrial or business engagements from 1799 until his death in 1824. In at least 75 of these, he contributed as banker or investor. Most of the engagements were small-scale regarding turnover and labor force. Some had just a handful of employees, when the largest should be regarded large-scale in the early 1800s. If one assumes an average labor force of 20 in his more than 30 manufacturing plants, that would account for 600. If we assume 15 on average for all kinds of business he was directly or indirectly involved in, we reach at 2.250.

Another source would be Hodne’s (1999) compilation of data in order to estimate the size of value added for Norwegian manufacturing for the late 1820s. As he also maps Haugean establishments, it enables one to map some of the first generation entrepreneurship and industrialism. According to this work, one may estimate the labor force of Haugean production units within manufacturing, crafts and construction to about 7,000-8,000 around 1828 (Hodne, 1999, pp. 41-61). However, these numbers are far from precise.

In order to map second generation Haugeans, we use established business history and local history literature for the period covering the late 1800s to the late 1900s. This literature is huge in volumes and
contains considerable information on the group we are investigating into. Unfortunately, with few exceptions, little has been done in order to organize these works quantitatively (Jonasson, 1946).

Third generation Haugeans are mapped through more recent business history literature, research and recent interviews. This literature enables us to quantify the material in different ways by compiling data from these various sources (Grytten, 2013, pp. 31-44).

4. ECONOMIC GROWTH

Jonasson (1946) concluded that Haugean entrepreneurship was significantly correlated with waves of economic growth, where growth lagged by some years to entrepreneurship. Figure 2 reveals substantial economic growth from the 1830s, the heydays of first generation Haugeans. One then finds a new wave of economic growth after a second wave of Haugean inspired entrepreneurship both in the early 1900s and in the second half of the 1930s. The birth of aquaculture in the 1970s was influenced by Neo-Haugean entrepreneurship.

We also find that Norwegian growth rates were higher than those of Western Europe in total until the 1870s. A new similar wave came from the 1970s after the discovery of oil and gas on the continental shelf. Figure 3 describes Norwegian GDP per capita compared to Western Europe, one of the wealthiest parts of the world. Norway was a relatively wealthy country as early as the 1800s, basically due to high productivity levels and utilization of natural resources (Hodne, 1981).
5. Hauge’s Entrepreneurship

5.1. Motivation

Hauge’s breakthrough can be dated to the years 1796–1804. He seldom aimed at personal profits and his spending was modest. His motivation seems to have been what he considered God given calling to stewardship. Being modest and working hard were both Christian duties and pleasure. Profits should be reinvested in order to give jobs to needy and hard working people: “not to live abundantly and collect wealth for one selves, but to please others and share ones earnings, more or less to the benefit of others…”[1].

People should be equipped to manage on their own, which would give the largest welfare surplus. Hauge considered industrial activities as part of a spiritual ministry: You know with me, that we are not placed in the world in order to consume alone, not to enjoy and amuse ourselves, … rather we should deny this … neither spend the gifts of God on the Evil and Cheep, the Over-Spender and Lazy, those who can never have enough, Coveters, who want to consume from others work, who demand a lot from the work of others, but never have any desire of doing something good for others…”[2].

5.2. Business areas

In 1801, Hauge gained privileges as merchant in Bergen, one of the most important economic cities in Scandinavia at the time. The local bishop protected him against the government in Copenhagen, Denmark. Thus, Bergen became his base until he was arrested in October 24, 1804 outside the city of Drammen. Gaining privileges became a ramp for further involvement in business and manufacturing (Breistein, 1953, pp. 75-93).

Even in arrest Hauge established companies and production plants. By going through a rich material of sources, one can conclude that he set up or restarted at least 30 manufacturing establishments. In addition, he was heavily involved as investor, banker or consultant in an even higher number of establishments. His participation in different areas of activities is listed in Table 1.

5.3. Finance activities

By organizing the data compiled by Breistein and Rødal, and Kiplesund (2009) it is possible to give estimates of Hauge’s basic financial transactions. His by far most active year was 1804, when we find 36 large financial transactions. To arrive at relevant estimates of these, we have inflated them by the inverse of the implicit deflator of gross investments according to the historical national accounts[3]. One then arrives at the transaction value in 2018 Norwegian kroner (TNOK2018):

\[ TNOK_{2018} = T_i^n = T_i \cdot \frac{P_{n}}{P_i} = T_i \left( \frac{I^e}{I_i} \right) \]  

(4)

where \( T_i^n \) denotes transaction, \( T \) in period \( t \), measured in values of period \( n \), when \( P_n \) denotes the price level, \( P_i \) of period \( n \), and \( P_i \) is the price level, \( P_i \) of period \( n \). \( I_i \) denotes gross investments.

---

Table 1. Portfolio of Hauge’s engagement

<table>
<thead>
<tr>
<th>Agriculture, forestry and fisheries</th>
<th>Manufacturing, crafts and construction</th>
<th>Services</th>
<th>Political</th>
<th>Religious</th>
<th>Welfare and education</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Agriculture</td>
<td>• Manufacturing</td>
<td>• Trade</td>
<td>• Political influence</td>
<td>• Preaching</td>
<td>• Popular enlightenment</td>
</tr>
<tr>
<td>• Cattle breeding</td>
<td>• Innovation</td>
<td>• Property</td>
<td>• Popular movement</td>
<td>• Reformation</td>
<td>• Social reformism</td>
</tr>
<tr>
<td>• Forestry</td>
<td>• Shipyard</td>
<td>• Ship owner</td>
<td>• Electorate enlightenment</td>
<td>• Authorship</td>
<td>• Teaching</td>
</tr>
<tr>
<td>• Fisheries</td>
<td>• Entrepreneurship</td>
<td>• Shipping services</td>
<td>• Revivalist</td>
<td>• Editorial</td>
<td>• Labor welfare</td>
</tr>
<tr>
<td>• Fish processing</td>
<td>• Publishing</td>
<td>• Investment</td>
<td>•</td>
<td>•</td>
<td>• Business education</td>
</tr>
<tr>
<td></td>
<td>• Distilleries</td>
<td>• Banking</td>
<td></td>
<td>•</td>
<td>Schooling</td>
</tr>
<tr>
<td></td>
<td>• Mining</td>
<td>• Journalism</td>
<td></td>
<td>• Technical enlightenment</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>• Brick making</td>
<td>• Editorial work</td>
<td></td>
<td>•</td>
<td>Business enlightenment</td>
</tr>
</tbody>
</table>


---

1 Letter from Hans Nielsen Hauge, dated 02.09.1816.
2 Letter from Hans Nielsen Hauge, dated 05.03.1815.
according to the national accounts, when \( c \) denotes current prices and \( f \) fixed prices in period \( t \) and \( n \), where \( t = 1,804 \) and \( n = 2,018 \).

However, this measure does not take into account the increase of purchasing power. We can include this factor by calculating annual wage equivalents. This is done by dividing the amount of the transactions with the average wage of 1,804, which is computed to have been 80 riksdaler. Next one multiplies this factor by present wages, \( W_n \) arrives at a sum showing the value of the financial transactions in 2018 wages, \( W_n \) which in total shows the value of the transaction measured in average 2018 wages (TAWNOK2018)

\[
TAWNOK2018 = T^n_t = \frac{T^n_t}{W_t} \cdot W_n = \frac{W^n_t}{W_t}.
\] (5)

Table 2 reports Hauge’s investment and financing activities in his most active year, 1804. The transactions were carried out in riksdaler (RD), and converted to kroner (NOK) according to conversion tables from the central bank. The sums reveal substantial financial activity, which made him an important investor at the time.

Table 2. Transactions by Hauge in 1804, in NOK

<table>
<thead>
<tr>
<th>Payments</th>
<th>Investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD</td>
<td>TNOK2018</td>
</tr>
<tr>
<td>6,200</td>
<td>5,655,733</td>
</tr>
<tr>
<td>335</td>
<td>305,592</td>
</tr>
<tr>
<td>15</td>
<td>13,683</td>
</tr>
<tr>
<td>12,000</td>
<td>10,946,500</td>
</tr>
<tr>
<td>2,800</td>
<td>2,554,202</td>
</tr>
<tr>
<td>450</td>
<td>410,497</td>
</tr>
<tr>
<td>10,000</td>
<td>9,122,150</td>
</tr>
<tr>
<td>2,000</td>
<td>1,824,430</td>
</tr>
<tr>
<td>800</td>
<td>729,772</td>
</tr>
<tr>
<td>230</td>
<td>209,809</td>
</tr>
<tr>
<td>200</td>
<td>182,443</td>
</tr>
<tr>
<td>3,200</td>
<td>2,919,088</td>
</tr>
<tr>
<td>234</td>
<td>213,458</td>
</tr>
<tr>
<td>200</td>
<td>182,443</td>
</tr>
<tr>
<td>3,200</td>
<td>2,919,088</td>
</tr>
<tr>
<td>800</td>
<td>729,772</td>
</tr>
<tr>
<td>600</td>
<td>547,329</td>
</tr>
<tr>
<td>50</td>
<td>45,611</td>
</tr>
<tr>
<td>800</td>
<td>729,772</td>
</tr>
<tr>
<td>96</td>
<td>87,573</td>
</tr>
<tr>
<td>2,000</td>
<td>1,824,430</td>
</tr>
<tr>
<td>2,000</td>
<td>1,824,430</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>21,800</td>
<td>19,888,286</td>
</tr>
</tbody>
</table>


5 https://www.norges-bank.no/Statistikk/Priskalkulator/
5.4. Low risk aversion

Hauge had a very diversified business portfolio. His risk aversion seems to have been low. More than 96 percent of his capital was borrowed money, in a time when one seldom borrowed more than 50 percent (Rødal & Kiplesund, 2009, pp. 48–64). This attitude is mirrored in his signet: "Again, the kingdom of heaven is like unto a merchant man, seeking goodly pearls. Who, when he has found one pearl of great price, went and sold all that he had, and bought it" (Breistein, 1953, p. 9).

Hauge sold or gave away most of his companies to followers. He appointed new leaders, whom he educated in technical and commercial skills. Thus, he created a huge network of enterprises and entrepreneurship (Dalgaard, 2011, pp. 48-66).

6. ENTREPRENEURS BY INSPIRATION

Since Hauge never set up a formal organization, it is not easy to define whom his followers were. However, those one is able to trace took different directions. Some took up his pioneering heritage, when some did the opposite (Dørum, 2017). We chose to follow the entrepreneurial branch.

The first generation consists of those considered Haugeans in their time from the early to the mid 1800s. The second generation were entrepreneurs strongly influenced by Hauge’s values from the last decades of the 1800s to the late decades of the 1900s. When the third generation are entrepreneurs during the last decades, considering themselves as influenced by Haugeanism. We call them Neo-Haugeans. These groups or generations represent innovation within industrial activity, labor welfare, popular enlightenment and social engagement for a 200-year period (Selend, 2013). The purpose of looking at these groups is to map differences and similarities throughout time and to find persistent trends.

6.1. Haugeans

On the basis of Breistein (1953) and Rødal and Kiplesund (2009) we have been able to map 124 first generation Haugean entrepreneurs and their businesses. Many of them had rather broad portfolios. In addition to diversified portfolios, puritan modesty was a central feature among them. Many also served as lay preachers.

Table 3. Haugean entrepreneurs by industrial activity

<table>
<thead>
<tr>
<th>Industry</th>
<th>N(A) = 124</th>
<th>Engagement</th>
<th>N(E) = 301</th>
<th>Engagement in % of population N(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>41</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fisheries, fish processing</td>
<td>51</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing, crafts</td>
<td>57</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade</td>
<td>68</td>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>50</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publishing, printing</td>
<td>17</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Misc</td>
<td>27</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sum</td>
<td>311</td>
<td>251</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: N(A) = Population of actors, N(E) = Population of engagement.

We can find typical Haugean business approach with diversified portfolios by Arent Solem (1777–1857) and John Haugvaldstad (1770–1850). Solem worked his way up to become a major merchant, investor and property owner in the major city of Trondheim. He pioneered a textile factory and developed a leading fishing community at its time. He started trade and manufacturing in the capital Christiania and a shipyard outside Trondheim. Hauge’s intention was that Solem and his wife should be leaders of his movement after him. However, since they didn’t live up to his ideal of asceticism, it didn’t happen (Rorvik, 1993, pp. 5-39).

Haugvaldstad moved to the city of Stavanger at the west coast in 1810. Without start up capital, he gradually accumulated capital through fisheries, fish processing and exports. The capital accumulation was used for reinvestment. Thus, he built himself a portfolio including merchanty, property ownership, food processing, and textile industry and farming with new technology. Hence, he became a serious threat to the establishment (Haugvalstad, 1851, p. 22).

Another feature among the first generation of Haugeans was innovation. A typical example would be Christopher Grøndahl (1764–1864). In 1809 he moved from Kristiansand in the south to Christiania, where he became a successful book
printer with royal privileges from 1812. Two years later he started reporting daily news from the constitutional assembly and established a war press during the Swedish-Norwegian campaign. In 1840, he bought the first domestic fast press and a double press driven by steam in 1854. By then he had created one of Europe’s most modern printing houses (Nyquist, 1987).

Another innovator was Peter Møller (1793–1869). He received scholarship from Hauge in order to study pharmacy. In 1829, he bought a pharmacy in Christiania, which he developed to be one of the leading of its kind in Northern Europa. The same year he invested in Lilleborg textile mill, which he developed to become one of the leading oil and soap producers in Scandinavia. In 1851–1852, Møller draw on knowledge from fellow Haugeans and developed refined fish oil for medical use. Within two years he had set up three factories producing this new health product (Backe-Hansen, 1996, pp. 22-24).

One of the best examples of Haugeans with high skills in innovation is the entrepreneurship of Niels Devold (1790–1872) and his son Ole Andreas Devold (1827–1892) in Ålesund, West-Norway. They established one of the leading textile factories in Northern Europe in the mid 1850s and became pioneers within technology, product innovation and labor welfare.

Another feature with puritan entrepreneurship was the persistence of family businesses. Their companies stayed on family hands for generations. Through these generations they typically took remarkable responsibility for their local communities. Haugvalstad expressed that they were told by God’s commandments to create jobs “be productive in the Earthly and still have their Mind focused on Heavenly” (Haugvalstad, 1851, p. 22).

6.2. Haugean descendants

During the 19th century, puritans were assimilated into mainstream ideology and religion, which again was influenced by them. Old barriers disappeared, and it became increasingly difficult to spot them as a group. However, their ideas still influenced the creation of a modern nation. A significant group of entrepreneurs were also influenced by their mind-set and ethics.

Svend Foyrn (1809–1894) from Tønsberg represents one of the first pioneers within this group. He was related to the movement and became the founder of modern industrial sealing and whaling through a series of technical and business innovations during the 19th century (Jacobsen, 2008).

Under Olaf Devold (1856–1933), the Devold textile factory became one of the first in Europe with telephone line, hydroelectricity and incandescence. On the island of Bømlo, south of Bergen, Martines Haldorsen (1858–1951) started production of technical equipment with his own constructed windmill as source of power. From 1903, he pioneered combustion engines for ocean going vessels. Their motors were considered some of the best in the world (Kolle, 2003).

The father of modern Norwegian furniture industry Peter Iverson Langlo (1892–1940) took part in revivalist movements in his youth. He started producing his own furniture in 1907. In 1927, it had become one of the largest in Scandinavia. From 1929 they had developed a production technique making their furniture far more cost efficient than what was the case for their competitors (Gjærde, 2000, pp. 57-160; Heidal, 2000, pp. 9-41). Jens Ekornes (1908–1976) learned how to produce furniture by Langlo. Ekornes were central in the establishment of a Norwegian furniture cluster with strong roots in puritan movements. In 1934, he established what became the largest furniture conglomerate in Scandinavia, with emphasis on product innovation and design (Heidal, 2009, pp. 11-45).

Still family enterprises ruled among the puritans. This is reflected in the furniture cluster, where a vast majority of the producers were family owned during the second generation of Haugean entrepreneurship6.

Labor welfare had still high focus under this generation. Devold and Foyrn established unemployment and retirement benefits for their employees.

6 Interview Mindor Hjellegjerde 14.06.2008.
and educational scholarships for their children decades before this became common in Norway. They built hospitals, churches, mission halls and houses of high quality for their employees (Lerheim, 1952, pp. 51-79).

They were pioneers and took responsibility for their local and regional community like the first generation Haugeans. However, their portfolios were less diversified, but more specialized. They were still engaged in politics, but less than the first generation.

6.3. Neo-Haugeans

During the two decades, the awareness of Hauge and his contribution to the creation of the modern society has increased substantially. And during this period, a number of industrialists have come forward expressing themselves as Haugean entrepreneurs sharing his business values. These have been explicit in their connection, puritan belief and ethics. They normally run family businesses with diversified portfolios and considerable innovation focus. They are often politically active and keen contributors to their local communities.

These features can be found in some of the foremost neo-Haugeans of our time, e.g. Per Sævik (1940) and Inge Halstensen (1945), respectively, from the northern western and the southwestern coast, which historically constitute two of the strongest puritan areas in the country. Both are lay preachers engaged in labor welfare, popular enlightenment, private schooling and contributions to their local communities. They have served as politicians, take part in huge family business with broad portfolios and are central in some of the largest maritime clusters in Europe (Bøe, 2010, pp. 243-277).

Blom aquaculture outside Bergen can illustrate family business tradition. The founder, Andreas Blom (1923–2012), experienced a radical conversion in 1952, similar to the one Hauge had in 1796. He started as fisherman and advanced to owner of a fishing vessel, before he founded the aquaculture company engaged in salmon and trout farming in 1971, an industry largely developed on inspiration of puritan values.

7. **HAUGEAN ATTRIBUTES**

In this section, we try to pull together a different set of attributes, which are typical for Haugean companies through the generations. We will look both at motivation and how business management has been carried out.

7.1. Stewardship as motivation

Christian stewardship was central in Hauge’s business ethics. His entrepreneurship started after his spiritual breakthrough in 1796: “we should … consume little, and contribute as much as possible to the benefit of all. This should be our Lust, and it is the Fruit of Love. Hence, we should be good and responsible stewards, and not vast the gifts of God …”.

To do business was considered part of God’s calling and duty as a Christian. We find the same kind of stewardship in many, but not all, of his followers. The second generation Haugean entrepreneur Jens Ekornes expressed this motivation very clearly (Møller, 1974, pp. 82-83): “It is nobody else than God who has created the wealth that luckily exists at Ikornnes today. My earthly task has been stewardship of this wealth. God has given me responsibility for buildings, machines and people. At the same time I know I will be held responsible for it”.

Mindor Hjellegjerde, another furniture giant, from the neighboring village, explained the same kind of stewardship as “Haugean motivation for business”. In consequence, it was imperative to do business to reinvest accumulated capital in productive measures to create work and values for the common good of the society. The vast majority of this Norwegian branch of puritan entrepreneurs has been modest with own consumption. At the same time, they have been involved in beneficial work. Quotes from leading present Haugeans

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7 Fiskebåt, 17.09.2013: http://www.fiskebat.no/default.asp?page=9245&item=57184,1&lang=1
8 Letter from Hans Nielsen Hauge, dated 02.09.1816.
9 Interview Mindor Hjellegjerde 14.06.2008.
10 Interview Øyvind Blom 14.03.2015.
Sævik and Halstensen show this motivation exists even today: “have taken inspiration from Hauge, but even more from The Good Master Himself, that we are here to be faithful stewards of what God has given us, to the best for His Kingdom and our neighbour, not for own consumption” 11.

“Hauge’s ideas are taken from the Scriptures, as believers it is our duty to be good stewards for what we have been given to the benefit of the society, our fellow men and women, as well as His Kingdom It was never given to us with a purpose of personal consumption” 12.

7.2. Common attributes

In order to map common attributes of Haugean business, we take departure in features of business management as they were described by Breistein (1953), Rodal and Kiplesund (2009). We hold this up against the information we have drawn from literature studies of second generation Haugeans and interviews with third generation Haugeans.

As can be seen in Table 4, the same set of attributes seem to have dominated all three generations of these Norwegian puritan entrepreneurs, despite they, not surprisingly, were most evident in the first generation.

These results can be illustrated in a radar diagram (Figure 4). The longer out the lines are, the more in line with the standard attributes the generation of the investigated population is. Figure 4 emphasizes that the first generation of Haugeans applies most to the movement’s attributes, when the second and third generations still have high and similar scores. For entrepreneurship and innovation along with stewardship, the scores are close to similar for the three generations. This means that these values have survived for more than 200 years in the Norwegian business community.

**Table 4. Common attributes in Haugean business**

<table>
<thead>
<tr>
<th>Feature</th>
<th>1st generation</th>
<th>2nd generation</th>
<th>3rd generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evident Christian motivation</td>
<td>Yes 33 UD 3</td>
<td>Yes 24 UD 7</td>
<td>Yes 29 UD 6</td>
</tr>
<tr>
<td>Modesty</td>
<td>Yes 32 UD 2</td>
<td>Yes 24 UD 4</td>
<td>Yes 24 UD 6</td>
</tr>
<tr>
<td>Family business</td>
<td>Yes 33 UD 3</td>
<td>Yes 23 UD 2</td>
<td>Yes 27 UD 3</td>
</tr>
<tr>
<td>Closeness to employees</td>
<td>Yes 34 UD 1</td>
<td>Yes 22 UD 5</td>
<td>Yes 25 UD 6</td>
</tr>
<tr>
<td>Community responsibility</td>
<td>Yes 34 UD 1</td>
<td>Yes 24 UD 3</td>
<td>Yes 26 UD 3</td>
</tr>
<tr>
<td>Broad engagement for society</td>
<td>Yes 28 UD 2</td>
<td>Yes 21 UD 4</td>
<td>Yes 23 UD 5</td>
</tr>
<tr>
<td>Entrepreneurship and innovation</td>
<td>Yes 26 UD 6</td>
<td>Yes 23 UD 5</td>
<td>Yes 24 UD 6</td>
</tr>
<tr>
<td>Diversified portfolio</td>
<td>Yes 28 UD 2</td>
<td>Yes 20 UD 3</td>
<td>Yes 23 UD 4</td>
</tr>
<tr>
<td>Continuity</td>
<td>Yes 26 UD 4</td>
<td>Yes 23 UD 3</td>
<td>Yes 22 UD 5</td>
</tr>
<tr>
<td>Stewardship</td>
<td>Yes 31 UD 4</td>
<td>Yes 25 UD 4</td>
<td>Yes 28 UD 4</td>
</tr>
</tbody>
</table>

Percent

<table>
<thead>
<tr>
<th>Feature</th>
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<th>2nd generation</th>
<th>3rd generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evident Christian motivation</td>
<td>Yes 91.7 UD 8</td>
<td>Yes 77.4 UD 2</td>
<td>Yes 82.9 UD 1</td>
</tr>
<tr>
<td>Modesty</td>
<td>Yes 88.9 UD 5</td>
<td>Yes 77.4 UD 1</td>
<td>Yes 68.6 UD 1</td>
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<tr>
<td>Family business</td>
<td>Yes 91.7 UD 8</td>
<td>Yes 74.2 UD 6</td>
<td>Yes 71.4 UD 1</td>
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<tr>
<td>Closeness to employees</td>
<td>Yes 94.4 UD 2</td>
<td>Yes 71.0 UD 1</td>
<td>Yes 71.4 UD 1</td>
</tr>
<tr>
<td>Community responsibility</td>
<td>Yes 94.4 UD 2</td>
<td>Yes 77.4 UD 9</td>
<td>Yes 74.3 UD 1</td>
</tr>
<tr>
<td>Broad engagement for society</td>
<td>Yes 77.8 UD 5</td>
<td>Yes 67.7 UD 1</td>
<td>Yes 65.7 UD 1</td>
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<tr>
<td>Entrepreneurship and innovation</td>
<td>Yes 72.2 UD 1</td>
<td>Yes 74.2 UD 6</td>
<td>Yes 68.6 UD 1</td>
</tr>
<tr>
<td>Diversified portfolio</td>
<td>Yes 77.8 UD 5</td>
<td>Yes 64.5 UD 9</td>
<td>Yes 65.7 UD 1</td>
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<tr>
<td>Continuity</td>
<td>Yes 72.2 UD 1</td>
<td>Yes 74.2 UD 9</td>
<td>Yes 62.9 UD 1</td>
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<td>Stewardship</td>
<td>Yes 86.1 UD 1</td>
<td>Yes 80.6 UD 1</td>
<td>Yes 80.0 UD 1</td>
</tr>
<tr>
<td>Total</td>
<td>Yes 84.7 UD 6</td>
<td>Yes 74.2 UD 7</td>
<td>Yes 71.7 UD 1</td>
</tr>
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</table>

11 Interview Per Sævik 03.10.2012.
12 Interview Inge Halstensen 03.10.2012.

http://dx.doi.org/10.21511/ppm.17(1).2019.21
CONCLUSION

The paper seeks to map characteristics of puritan industrialism in terms of management and entrepreneurship. Our departure is the Solow model, which explains economic growth by three factors: labor, capital and multifactor productivity (MFP). Utilizing these factors into innovative production, entrepreneurship stands out as an important variable within MFP. By exploring different sources we find that the Norwegian puritan leader Hans Nielsen Hauge (1771–1824) took part in the establishment of around 75 business units. Additionally, he served as advisor or a resource person in the establishment of another 75 units. These represent a broad portfolio of branches. In his peak year, 1804, he must have been an important domestic investor.

The paper also sorts Haugean entrepreneurship into three generations. In the first place, the Haugeans until the late 1800s. Secondly, Haugean descendants during the last decades of the 1800s until the last decades of the 1900s. Finally, Neo-Haugeans thereafter and until now.

We finally map characteristics and motivation for their business management. This is done by a study of literature, letters, interviews and quantitative utilization of existing sources and data. We conclude with ten different parameters, where puritan stewardship, Christian motivation, entrepreneurship and responsibility for the community seem to be among the most important features for their involvement. These attributes seem to have been fairly constant over time.

REFERENCES


