¹Innovation and network leadership: The ²bureaucracy strikes back?

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Abstract. This article focuses on the relationship between network leadership and innovation in the public sector. Data from 7 three case studies on digital-based municipal networks in Norway are presented, covering the period from 2006 to 2017. 8 Although the networks share key characteristics, their capacity to accomplish technical and organizational integration varies 9 10 considerably. Each network is thus analyzed according to four traditional leadership roles. A key finding is that there is a connection between innovation and network leadership. Networks facilitate entrepreneurship, but without an integrator and 11 well functioning administrative superstructure, their ability to innovate could be compromised: the mix of leadership roles 12 therefore matters. Second, given the lack of formal authority in networks, power arises when professional ICT experts with 13 14 access to knowledge collaborate with Chief Executives Officers with access to decision-making structures. 'Dyadic leadership' and 'Network conductors' are terms introduced as contributions to this emerging insight. Third, informal networks and "ICT-15 clubs" struggle to innovate as integration advances beyond relatively loose digital collaborations. A key explanatory factor is 16 the extent to which network leaders manage to mobilize political and administrative support towards formalizing the networks 17 18 and thus driving innovation.

19 Keywords: Municipalities, innovation, ICT, networks, leadership, management, dyadic leadership, network conductors, network 20 dynamics, governance

21 1. The integration of technical and organisational networks

New digital technology puts pressure on long-established governmental forms (hierarchies) while also
 opening up opportunities for cooperation that span traditional institutional boundaries (networks). The
 purpose of this article is to understand network dynamics, and to investigate the relationship between
 leadership in networks and the capacity to implement digital innovations.

Increasingly, Norwegian municipalities are developing a variety of joint ICT-supported services across
 municipal and institutional boundaries (Jacobsen, 2014). Municipal cooperation is not a new organiza tional form; however, the scale has gained momentum in recent years, not least because of technology.
 Local municipalities join forces to master complicated projects such as building ICT infrastructure, to

30 gain access to expertise, reduce costs, enhance e-services and ultimately share case processing and joint

service production (Baldersheim et al., 2008, Haug, 2009, Haug, 2014). The main advantage is that a

³² fusion of technical and organizational networks provides local politicians and public service managers

³³ with a new way of thinking about the relationship between the functioning of local administration and ³⁴ the structure of municipalities (Haug, 2009).

In a network perspective, innovation is an open process, inspired by focusing on the use of a wide range of internal and external resources for innovative opportunities (see e.g. Chesbrough et al., 2006).

A.V. Haug / Innovation and network leadership: The bureaucracy strikes back?

Participation in innovation processes through co-creation and networks enables municipalities to become 'open institutions''. Recent estimates suggest that each of Norway's current 426 municipalities, half of which has less than 5,000 inhabitants, is a member of more than 14 different public sector networks. At present a fast growing number of cross-institutional *digital* collaborative arrangements are emerging at the local and sub-regional level in Norway as well as in the other Nordic states (NOU, 2005:6, ECON, 42 2006; Høykom, 2004a, 2004b & 2006; Baldersheim et al., 2008; Jacobsen, 2014).

Exploring the large literature on *innovation*, a distinction is sometimes made between invention and innovation (Haug, 2014). Rogers (1983), who has been especially concerned with the diffusion of in-

⁴⁵ novations, focuses on the individual and organizational levels: "An innovation is an idea, practice, or

⁴⁶ object perceived as new by an individual or other unit of adoption" (Rogers, 2003: 36). The latter en-

47 capsulates a localist view of innovation applied by several studies of innovation and implementation of

⁴⁸ ICTs (Andriessen & Koopman, 1996; O'Looney, 2002; Snellen, 2005; Fagerberg et al., 2005; Bessant

⁴⁹ & Tidd, 2011) and this localist perspective will be employed here. Moreover, networks are considered ⁵⁰ to be implementation structures for ICT and new ways to produce public services.

Although inter-organizational collaboration among public agencies is now commonplace, so too are expressions of frustration by those involved (Rhodes, 1999; Heeks, 1999; Kickert et al., 1999). Sullivan

and Skelcher hold that 'there can be considerable political, operational and financial obstacles to making

⁵⁴ collaboration work' (2000:7). Others have scrutinized the problem of the 'democratic anchorage' of

network organizations and a possible loss of legitimacy compared to conventional government (Stoker, 56 2004; Sørensen & Torfing, 2005; Olsen, 2006; Jacobsen, 2014; McGuire & Agranoff, 2011).

57 2. Innovation in three municipal networks in Norway

Three networks were first examined between 2005 and 2008 (Haug, 2009). The main data collection methods were interviews with municipal mayors, CEOs and ICT managers, document studies of local contracts, network plans, reports, budgets, financing, etc., as well as analyses of the websites of the various networks.

Each network aimed at facilitating and implementing inter-agency ICT initiatives at the local and subregional level in Norway. All are public sector networks (McGuire & Agranoff, 2011; Jacobsen, 2014)

regional level in Norway. All are public sector networks (McGuire & Agranoff, 2011; Jacobsen, 2014)
 of members with democratically elected leaders and all are subject to identical legal regulations, with
 similar tasks and responsibilities. Although participation from universities or private businesses occurs,

66 each network was essentially initiated and developed by a group of neighbouring municipalities.

Despite their many similarities, the networks produced significantly different outcomes. The difference can be presented along two related dimensions: technical and organisational integration. *Technical*

⁶⁹ *integration* concerns the extent and types of shared ICT solutions between the network members, rang-

⁷⁰ ing from basic infrastructure, through shared ICT-applications, servers and professional systems to the

⁷¹ provision of e-services across the boundaries between municipalities. The second dimension relates to

organizational integration. This include structural variation and can vary from an informal 'club' of IT
 managers established to exchange ideas through a contractual relationship to a 'consortium' with a board

74 of representatives, based on a formal and comprehensive agreement between the municipalities.

⁷⁵ In Fig. 1 below, each of the three networks is positioned along these two dimensions (arrows illus-

⁷⁶ trate the development from 2006 to 2016). In 2006, the Mountain Region was characterized by a high ⁷⁷ level of technical and organizational integration. The Digital West Agder (DDV) was a moderately tech-

⁷⁸ nically integrated network, although binding organizational integration was almost totally absent. The

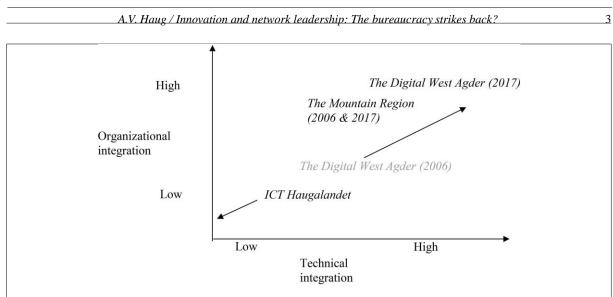


Fig. 1. Three Norwegian municipal networks according to level of technical and organizational integration.

⁷⁹ third case, ICT Haugalandet, was situated close to the lower left corner. It has a similar low level of orga-

nizational integration as the Digital West Agder, but is much less technically integrated. The latter case

⁸¹ is particularly interesting because this network had earlier been viewed as a success story in a Nordic ⁸² context (Baldersheim & Øgård 2003).

Placing each network as in Fig. 1 is, of course, a sweeping statement. A network might well be con-

sidered successful despite moderate integration. Nevertheless, an important question arises: why are the

three networks – despite a number of similarities – positioned so differently along these dimensions?

⁸⁶ *Moreover, how do these networks develop through time?* To answer this and related questions, we shall

now undertake a more detailed description of each network paying particular attention network leader-88 ship.

89 3. Network leadership as explanatory variable

Northouse defines leadership as 'a process whereby an individual influences a group of individuals to 90 achieve a common goal' (2012:3). Four elements in this definition should be emphasized. First, leader-91 ship is a *process*. Leaders continuously influence – or are influenced by – the person(s) they lead. As 92 a result, leadership is not a linear or one-way process, but an interactive practice. Second, leadership 93 emphasizes *influence*. Influence is about how leaders obtain power over those directed. Third, leadership 94 hormally occurs in *groups*, which differ in size and shape A fourth key element is that leadership is 95 about *pursuing goals*. Leadership takes place through instructions and other means and has its effect in 96 context where individuals and processes are moved towards a target. Based on these broad and general 97 a ⁹⁸ elements, a large number of more specific leadership categories are crystallized.

⁹⁹ It is perhaps paradoxical to talk about network leadership or 'the network manager' (O'Toole et al., ¹⁰⁰ 1999). After all, networks are defined by a lack of authority, as in Powell's (1991) classic study 'Neither ¹⁰¹ Market nor Hierarchy'. Yet, as O'Toole has pointed out, actors or sub-sets of actors sometimes gather ¹⁰² individuals to support or move the network towards specific solutions or a particular policy (1999:137). ¹⁰³ At the same time, such actors cannot automatically expect full support. O'Toole's suggests that in the

absence of authority or suitable rules, a network leader must use a wider range of strategies than those

A.V. Haug / Innovation and network leadership: The bureaucracy strikes back?

commonly recognised in the public sector. Agranoff and McGuire have argued that network management 105 can be described through four management functions or "Collaborative Management Skills": Activation, 106 raming, Mobilizing and Synthesizing (Agranoff & McGuire 2001a: 298–300; Cf. Agranoff, 2007). 107 However, what does 'a wider range of strategies' mean, and how are such functions held in practice? 108 A useful typology of leadership *roles* is developed by Adizes (1980), who devised what has become 109 known as the PAIE scheme (Producer, Administrator, Integrator and Entrepreneur). These four roles are 110 111 frequently referred to in textbooks on leadership (e.g. Strand, 2007; Northouse, 2012). The *Producer* focuses on the importance of pursuing a goal. He or she is good at 'getting things 112 done', familiar with technology and other aspects of the field. A producer thinks logically, rationally and 113 114 is capable of strategic thinking. He or she typically serves as project manager or technical engineer. The Administrator focuses on control, monitoring and legal regulations. He or she considers structure 115 and regulations as important, and is keen to keep things in order. Strict discipline, surveillance, docu-116 mentation of working hours, specification of procedures, contracts, audit and total quality management 117 118 are techniques in the Administrator's toolbox. The *Integrator*, on the other hand, is more concerned with identity, interdependency and harmony, 119 He or she cultivates holistic thinking, compassion, inclusive training and social integration, and tries to 120 121 mediate when conflicts emerge. The integrator is a negotiator and a master of compromises. Finally, the *Entrepreneur* is characterized by an ability to create a vision and to follow this up by 122 means of creative solutions. He or she values starting something new, e.g. exploiting a new technology or 123 initiating organizational changes. The Entrepreneur is also good at mobilizing support for ideas, building 124 alliances, etc. Personal capacities include a willingness to take risks, energy, endurance and charisma. 125 However, the Entrepreneur is sometimes criticized because he or she does unusual things that might 126 override social norms or has an unrealistic interpretation of business opportunities, etc. Thompson et al. 127 (1991) employ the term 'cowboy' to describe the 'dark sides' of the entrepreneur. Adizes (1988) uses 128 the term 'arsonist' to describe leaders not capable of pursuing their ideas from vision to implementation 129 130 and operation. Given the vast leadership literature, it is, of course, possible to overlook other theories of leadership 131 that might be relevant. For instance, McKenney et al. (1997) operate with an interesting typology in 132 specific forms of 'technological leadership' (1997), and van Wart's (2014) presents several leadership 133 styles in 'The Leadership Action Cycle'. However, the choice of leadership perspective here is based 134 on a network leadership literature review (Haug, 2009). Adizes's strength is that all the roles are simple 135 to define, transparent and subject to a number of previous empirical analyses of municipal leadership 136 in Norway and the Nordic municipalities (Strand, 2007). A further strength of the PAIE scheme is its 137 emphasis on various leadership roles being *complementary*. All roles must be covered, but the mix 138 matters. The PAIE scheme is generic, i.e. also suitable for explaining variation in results from network-139 140 based organizations.

Below the PAIE scheme is applied to three municipal ICT based networks in Norway. The overall idea is not to 'test' the PAIE approach per se, but to investigate the networks' motivations and the relationship tabetween leadership in networks and the capacity to implement digital innovations.

144 3.1. Case 1: Network leadership in the Mountain Region

The Mountain Region ('Fjellregionen') in Southeast Norway covers an estimated 24,000 inhabitants, but the area is comparable to Schleswig-Holstein or Thüringen in Germany. In the south of the region, a digital partnership between five municipalities has been formed. The primary driver and host is the town tas of Tynset in the largest municipality.

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Here several initiatives and ICT projects are of interest. First, a common helpdesk and resource 'pool' for ICT-employees has been established. ICT staff from the five municipalities are in fact working an estimated 40 percent of the time for their home municipality and 60 percent for the network on a rotating basis. According to the CEO in Tynset, the solution is considered a major success due to both better uilization of the ICT resources and because staff no longer have to work in isolation:

The resource 'pool' made it possible to allocate ICT experts from day to day operations to new
 initiatives. The pool of ICT-related 'know-how' plays a major role in generating and operating new
 ICT-based projects

From the centre of Tynset the network is coordinated by means of a 'work central' connecting or 157 disconnecting users and applications according to what is agreed upon. The bulk of the functions are 158 furthermore organized as technical yet professional 'sub-networks', e.g. a health network, a social ser-159 vices network, rehabilitation and care network, etc. For instance, an employee dealing with child welfare 160 161 in one municipality can easily access necessary data (personal data, records, local regulations, etc.) from ¹⁶² a municipality situated on the other side of the region. In short, services can be carried out in neighbouring municipalities thus facilitating organizational flexibility. Mutual ICT infrastructure has also stimu-163 ated cooperation among local politicians and CEOs on issues such as writing statements on national 164 onsultations or reports on regional issues. 165 C

In 2005 each Municipal Council decided to formalize the network into an Inter-Municipal Corporation 166 (based on a special Norwegian statute). The five municipalities are the formal owners of the company, 167 which has three steering structures: a Board of Representatives (mayors), a Steering Group (mainly 168 CEOs), and a General Manager (currently the ICT manager in Tynset municipality). Each municipality is 169 170 the formal owner of common resources. Yet, if a municipality decides to leave the group, the technology stays behind. Another result of the agreement is that they act as one legal partner when dealing with 171 private ICT providers, thus gaining market power and further reductions in ICT costs. As a result, each 172 municipality is more formally as well as financially committed, although withdrawal is always an option. 173 If we take a closer look at network leadership in the Mountain region in 2006, the most prominent 174 role was the *Producer*. According to our informants, the network did not develop due to a top-down 175 approach or a visionary leader. On the contrary, the network emerged and developed gradually from 176 below, i.e. out of pragmatic and careful planning by the five municipal ICT-managers. As time passed 177 the ICT personnel came to know each other – even forming friendships – while exchanging ideas about 178 technology and how to better utilize scarce resources. The process was problem-driven; based on the ex 179 rience of severe pressure of work, professional isolation, stagnation and vulnerability. Even though all 180 1 ICT-managers participated, the ICT-manager in Tynset municipality in alliance with his Assistant Chief 181 Administrative Officer (CEO) were identified by the informants as particularly important. They were 182 the first to put a draft agreement on paper, they designed common work processes and organizational 183 models, arranged meetings, prepared common ICT purchases as well as conducting several negotiations 184 185 about the location of services and designing the common work pool.

The network also had a clear *Administrator*; or rather consensus was established as to the necessity of formalizing this role. Local politicians, CEOs and ICT managers all wanted 'to keep things in order'. Yet none appeared as directly 'bureaucratic' in the negative connotation of the word. According to the CEOs, the Administrative role has contributed to stabilizing the network, has enhanced transparency and political influence, as well made it possible to fulfil legal obligations. The CEOs were also motivated by binding agreements on issues such cost sharing, governability, accountability and liability. Among the technicians, a formal model also made it easier to handle issues of information security. Data protection

A.V. Haug / Innovation and network leadership: The bureaucracy strikes back?

was considered particularly important early on as each municipality handles a significant amount of
 sensitive personal data. Yet, the most important driving force behind the formalization was probably
 political power. When the Mayors entered the network, they soon demanded a formal model in order to
 ensure political influence and control. This has even increased, as one of the Mayors explained (2006):

In the beginning, the agreement was far too euphoric. Having the Board of Representatives to meet
 once a year was not enough – too optimistic. The politicians wanted more influence.

The third kind of leadership also evident in the Mountain region was the Integrator. Keywords used 199 to describe this role were 'facilitator' or 'good at reducing barriers'. The integrator did not work on 200 an operative level, but was frequently in contact with ICT consultants and others involved. This was 201 of course partly the job of the Manager (a position established after they decided to set up the inter-202 municipal company). However, according to our informants the most important architect and the key 203 Integrator in the Mountain region was the Assistant Chief Executive Officer in Tynset municipality. As 204 mentioned above, this person was also particularly active as an Administrator and assistant CEO for 205 the largest municipality. By initiating reports, carefully listening to politicians, designing work models. 206 utilizing local knowledge, and reconciling differences among the ICT managers, he has contributed 207 significantly to the network. He also appeared as a positive and unifying person. Moreover, because he 208 held an important position in the largest municipality, he easily gained access to political leaders in all 209 unicipalities. 210 ľ

For example, he initiated the Plan of Actions, in which the local politicians consider on an annual basis which ICT projects will be given priority. The plan has, according to the informants, contributed

significantly to increasing political governability while at the same time reducing unrealistic expecta-

tions as to what the network is going to deliver. It prevents potential conflicts and is recognized and

institutionalized as a key steering document. A second example concerns flexibility. Each municipality

is accepted as sovereign and does not have to commit itself to a particular ICT project. This was an important principle, emphasized by the assistant CEO as functioning almost as a 'valve' for the network. A
third integrating step, initiated by the ICT manager in Tynset, was to include 'the users' in ICT projects.
Permanent user groups (such as healthcare workers, teachers and administrative staff) were established

²²⁰ in relation to digital expert systems operated by the network and they continuously provide feedback.

²²¹ This inclusive strategy also created a 'sense of belonging' and prevented negative attitudes towards ICT

activities. The ICT manager as well as the Assistant CEO emphasized that the comprehensive strategy resulted in far better ICT systems, eased implementation, and also legitimized technical network decisions on the operative level.

In short, three of Adizes' four roles were apparent in the Mountain Region in 2006. However, we did

not find a typical *Entrepreneur*. Based on the conversations with the informants, there was no typical
 enthusiast or visionary leader. The network was built as they expressed it, 'stone by stone' by Producers,

228 Administrators and Integrators.

Ten years later, the Mountain Region's network is still vital and functioning well. Their ICT and inno-

vation processes remain organized as an Inter-municipal Company with no major changes. The network

manager is also the same person, still employed in Tynset municipality, but seconded full-time to the

company. The other employees are also seconded to the company for 60% of their time. The company

has, on behalf of the owners, duties and responsibilities similar to those in the municipalities' main-

stream ICT units/departments. New ICT developments and rapid technological changes are analyzed

and selectively implemented. Enhanced system capacity through collaboration between the municipali-

ties in the Mountain Region promotes ongoing innovation. According to the ICT manager (2017) there

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are still not, however, typical entrepreneurs in the forefront of the technological development. The CEO
 in Tynset municipality confirmed this, emphasizing there are few conflicts, yet the need for cooperation
 has increased as a result of increasingly comprehensive technical solutions.

240 3.2. Case 2: Network leadership in the Digital District of West Agder

The second case is the Digital District of West Agder in Southern Norway (DDV), encompassing 11 242 municipalities (2006–2012) and an estimated 57,000 inhabitants in an area of 6,250 sq km.

DDV consisted of three seemingly independent networks under an overarching structure. One, initi-243 ated by the municipality of Kvinesdal, was responsible for e-mail systems and web solutions. A second 244 network was IDIVA, an initiative emerging from a common accounting system for six municipalities. 245 Thirdly, common software for district nurses, home care, social welfare offices and childcare was es-246 tablished. Examples from the large portfolio included the development of a common ICT-strategy, joint 247 purchasing routines, shared servers and security systems, a joint helpdesk, IP-based telephones and 248 videoconferencing. A common 'hub' was in place in the municipality of Mandal (the largest of the 11 249 municipalities). Nevertheless, no 'pool' of ICT personnel was evident in DDV in 2006. In contrast to the 250 Mountain region, the ICT manager in Mandal emphasized the importance of keeping all ICT resources 251

252 at the local municipal level:

Local access to ICT competence is vital to any organization. We do not want to change that. We do not want to centralize personnel. What we are thinking about is to centralize certain functions, still keeping a decentralized operative level. I think ICT personnel should work where people actually work.

DDV was at that time managed by a highly informal council consisting of municipal CEOs under the daily supervision of the CEO in Marnadal municipality. Although there was no legally binding agreement, 'authority' seems to have been exercised through the professional influence of the ICT heads, most notably by the ICT team leader from Mandal. In the interviews, he appeared clearly production-oriented: an ICT engineer more focused on the technical capabilities and limitations than on administration and formalization of cooperation. This person also had a close relationship with the CEO in Marnadal mucipality and worked almost as a secretary to the CEOs.

In DDV trust was founded on a loosely constructed and highly flexible collaboration in which pragmalos tism, voluntarism and equality were outstanding features. This was also reflected in the fact that none of the municipalities were committed to participating in projects (except basic infrastructure and security). Every municipality had an equal say regardless of municipal size, effort and investment in DDV. Terms 268 used to describe the network were 'mutual trust' and 'gentlemen's agreement'.

Despite the network's achievements, it was striking that there was extreme caution about initiating 269 new ICT schemes that might impact on the municipalities' internal organizational structures. The ICT 270 team seemed to work somewhat in isolation although in an understanding with the CEOs. Collaboration 271 was apparently influenced by a 'twin logic': on the one hand an economic/technological logic facilitating 272 comprehensive collaboration and cost reductions due to standardization, specialization or centralization; 273 on the other hand, a political logic on the part of the CEOs, which shaped developments in proportion 274 to what was 'politically possible'. Questions such as 'do we need 11 accounting offices when we can 275 do with one' were systematically avoided. Due to the consciousness of this twin logic, the ICT team as 276 well as the CEOs 'feared' initiating ICT projects that might cause political disputes over the location of 277 278 services and institutions or staff reductions.

As of 2006, only two decisions were made by the politicians: the first concerned participation in a 279 regional broadband initiative; the second when they had to pay A76,000 to cover the municipal part 280 of the expenses incurred by building broadband. Thus, DDV was in 2006 by and large a technically 281 and producer-driven process. Although there was occasionally talk about including 'the political leader-282 ship', politicians were reduced to 'walk-on' parts in a 'theatre' governed exclusively by ICT managers 283 and CEOs. Compared to the Mountain region, DDV was in 2006 less technically and organizationally 284 integrated. To remain undisturbed in their new 'playground', the CEOs and ICT managers chose not to 285 involve the political level. 286

Can this be explained by difference in network leadership? As with the Mountain region, DDV en-287 compassed a strong *Producer* role. According to our informants, this role was played largely by ICT 288 managers through technical projects. The ICT personnel were united mainly through an informal ICT 289 forum, which they considered to be 'highly efficient' and 'a success story'. Coordinated by the ICT man-290 ager in Marnadal municipality, the forum discussed current challenges, introduced solutions to practical 291 problems, and initiated new projects. There was little evidence of written agreements or a long-term 292 strategy. No record of meetings, decisions taken or budgets were kept. Still, DDV always seemed able 293 to access external financing, such as that provided by the state for broadband initiatives. This made the 294 network independent of 'being controlled in detail by politicians' – according to the ICT manager in 295 Mandal, who was straightforward on this issue: 296

²⁹⁷ If you got money, you don't need politics!

The role of *Administrator* was, in other words, almost entirely absent in DDV in 2006. As mentioned above, however, this was a conscious strategy to avoid 'political interference'. As the leader of the informal steering committee put it: 'we have not been much preoccupied with formalization'. The CEO in Marnadal described it in 2006 as 'a rational marriage'.

The absence of an administrator role might also be explained by the fact that this network had a particularly well-developed *Integrator*. The key person mentioned spontaneously by the informants was the CEO in Marnadal municipality (usually addressed only as 'Big Per' due to his physical size as well as regional influence). Although integration in DDV was limited to administrative and technical staff, the CEOs 'connected' to local politicians from time to time and 'informed' politicians when it was considered necessary. As 'Big Per' expressed it himself:

In this collaboration it has been very little politics. The steering committee is the CEOs. We inform politicians if necessary. This is a genuine network. It only happened this way.

The CEO in Marnadal had been elected as chair of the board in IDIVA (see above) as well as head of 310 the informal CEO forum in DDV. A combination of positions and personal capacities made this person 311 function almost as an 'intersection' between the other CEOs, ICT managers and key political decision 312 makers. He also gained trust because, as his own municipality did not have an ICT unit of its own, he 313 could not be accused of 'feathering his own nest'. The ICT manager in Mandal had, by serving his 314 CEO, developed a close relationship with 'Big Per' and functioned in 2006 almost as a professional 315 secretary to the CEOs in DDV. As in the Mountain region, each member of the network had flexibility 316 about participating in projects. A 'two-or-more-rule' was implemented, meaning that if more than two 317 members wanted to collaborate on a particular ICT project, the project was defined as a 'DDV-project' 318 Nevertheless, the ICT manager from Mandal seemed to act as a fulcrum for most of the day-to-day 319 coordination: he recorded and carried forward project initiatives to the CEOs, often informally through 320 'Big Per'. Similarly, if the CEOs had a question, much of the contact went through these two leaders. 321 Big Per's comment 322

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I'll just have a chat with Roy [the ICT manager in Mandal]

illustrates the close relationship between the head of the informal CEO steering committee and the leader
of the ICT forum. 'Roy' also describes this structure as informal and flexible, but still highly effective.
The following quote captures this efficiency argument, but also illustrates the importance of having top
level CEOs on board:

328 We do not have to go home to get permission

However, the *Entrepreneur* was only to some extent evident in DDV. It was difficult for the informants to pinpoint one particular person as particularly creative or visionary. Elements of entrepreneurship were evident in the ICT manager in Mandal, as well as the CEOs e.g. when contributing to providing financial support to DDV.

Today, ten years later, the DDV network is indeed vital and developing. Several interesting changes 333 334 have occurred. A key modification is that the network had to abandon its 'independence' and develop into a much more formalized Inter-Municipal Company in 2015. Local ICT resources were centralized and 335 about 40 employees are today located in new premises, serving nine municipalities. Both key initiators 336 (the CEO and the ICT-manager) have left the network, as have two of the original 11 municipalities. 337 According to the current manager, this was due to arguments about the location of services, with the 338 breakaway group wanting to keep technology in the municipalities to protect local jobs. An overall 339 management board is also in place, consisting of all nine municipal CEOs. The board is responsible 340 for the management of DDV, for setting out the e-strategy for cooperation and for budget decisions. 341 The current manager of the company cited three reasons for these changes: (a) the need for politicians 342 and administrative leaders to be in control of the costs and development; (b) the flexibility facilitated 343 by remote control technology, and (c) a need to better standardize technology by means of authority. 344 The 'voluntary procurement' and 'encouragement' strategy of 2006 gradually became inadequate: the 345 original model resulted in 'too much talk and difficulties to agree' and as he chose to formulate it: 'to 346 347 get an omelette, you have to break some eggs'.

The new DDV is currently developing several new and innovative ICT-related projects, monitoring and implementing rapid technological changes, safeguarding data security, facilitating teaching, organizing conferences, etc. Overall, the new DDV reflects significantly enhanced system capacity through more formalized collaboration between the municipalities. In short, from a theoretical point of view, the role of *Administrator* and the network's bureaucracy has been significantly strengthened. This clearly promotes entrepreneurship and innovation.

354 3.3. Case 3: Network leadership in ICT Haugalandet

The third and final case is ICT Haugalandet. The network consisted of twelve municipalities in the Southwest of Norway, encompassing around 130,000 inhabitants and crossed the boundary between two Counties (Rogaland & Hordaland) as well as two political sub-regional counties ('regionråd'). The network initiative can be traced back to the establishment of a common library system, originally established by the ICT manager in Tysvær municipality in the late 1990s. Initially, much like in DDV, the ICT anagers were working 'in isolation' from administrative leaders and politicians.

Later, however, the network went through several processes of fragmentation. Competing networks emerged, and it is perhaps more precise to describe ICT Haugalandet (2006) as a system of parallel networks. Yet, two structures provided some degree of integration: an informal ICT club called 'ISI' where ICT managers met frequently to discuss current ICT-related issues and developments, and a coordinating

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body consisting of all the CEOs. This group initiated several ambitious collaborative processes in which 365 all the twelve municipalities were invited to participate. However, it was not possible to identify more 366 than a very basic level of collaboration within the network. Despite a handful of ICT projects, ICT Hau-367 galandet was far less technologically and organizationally integrated than the other two projects. After 368 visiting the network twice (2003/2006) we formed an impression of severe problems of leadership and 369 370 control. However, ICT Haugalandet did have Producers. The ICT managers initiated and implemented interest-371 ing ICT projects such as the municipal 'HUB', established in Tysvaer to connect all the municipalities 372 in the network. Despite their high level of technical skills, the Producers did not manage to mobilize 373 sufficient support in terms of external funding or cost-sharing mechanisms to sustain a common and 374 375 enduring portfolio of ICT systems. Technical integration was limited to maintaining basic infrastructure, 376 informal project coordination and ICT purchases. Constraints experienced by the Producers might well be explained by the fact that the role of Admin-377 *istrator* was by and large absent. While the ICT consultants deliberately wanted to avoid 'bureaucrati-378 zation' and 'political interference' this network was heavily dependent upon internal financial support, 379 which required political decisions at municipal level. In addition, the absence of a comprehensive agree-380 ³⁸¹ ment and functioning superstructures eventually caused promising projects to fail. To understand why why the administrative role did not function properly in ICT Haugalandet, we need 382 to review the development of the network. As promising results emerged from the ICT collaboration 383 effort, combined with an increased demand in some of the municipalities for more efficient municipal 384 services, several CEOs wanted to control the regional ICT efforts. In other words, a basically bottom-up 385 approach changed from 2003 onwards into a top-down driven process. In 2005 the CEOs initiated a large 386 report, in which for the first time questions of cost reduction became a priority for the network and on 387 388 this basis a comprehensive agreement was designed to formalize the network structure. However, in 2006, only two out of the twelve municipalities supported the initiative. Opposition came 389 from the ICT specialists who argued that further integration required more not less investment in per-390 sonnel and equipment. The differences in financial position of the network members made agreement 391 difficult and there was a general fear of job losses in the light of previous experience of attempted mu-392 393 nicipal amalgamation. Despite the failure of the agreement, the ICT managers continued to meet informally. The network 394 was characterized as a truly useful 'arena for learning', a 'think tank' and 'innovative forum'. They even 395

³⁹⁵ was characterized as a truly useful 'arena for learning', a 'think tank' and 'innovative forum'. They ever ³⁹⁶ tried to formalize it by establishing a more formal agreement and a steering committee. However, the ³⁹⁷ initiative was quickly rejected by the CEOs. One of the ICT managers described the event as follows:

We collaborated well. And we wanted to be more formal, but this was rejected by the CEOs. They were afraid of us becoming a 'state within the state'. We have selected a leader and that is it.

⁴⁰⁰ The response of another ICT manager points to the key issue of power and control:

We were looked upon as a power structure. For ICT managers to 'talk together' are ok. 'The group
think' is not.

What is evident in this case, is an almost complete lack of the *Integrator* role. Divergent actors (professional forces, levels, and institutions) prevented the network from pursuing additional technical and dos organizational integration.

406 Projects accomplished at Haugalandet in 2006 occurred mainly due to the role of two archetypal *En-* 407 *trepreneurs*. The (former) ICT manager in Tysvær municipality, flanked by his colleague and friend from

A.V. Haug / Innovation and network leadership: The bureaucracy strikes back?

Karmøy municipality, for years contributed significantly to regional ICT development. Their colleagues and others described the two as 'indefatigable', 'generous', 'enthusiastic' and 'passionate about shared ICT solutions'. Some informants also emphasized their unique capacity to 'sell ideas' and 'go-ahead spirit'. Entrepreneurship was perhaps most evident with the ICT manager in Tysvær. He demonstrated enormous tenacity in the face of official opposition in implementing such ICT innovations as fingerprint log-in for laptops in the network and in driving a large Internet telephone project that encompassed 26 unicipalities in a joint tender.

However, observing the network today, 10 years later, there is not much cooperation left: all the key
players have resigned or left 'the club'. Three of the municipalities have, however, continued based on a
'letter of intent' with some community services. Beyond this, both organizational and technical cooperation have largely vanished. One of the former ICT managers ascribed the development to 'demanding
political conditions in the region'. She referred to different power structures, the varying sizes of the
municipalities, fear of job losses, and an ongoing 'positioning' in connection with possible municipal
amalgamations in the region. She also highlighted the loss of "entrepreneurshipaőar or the motivation of
the development. Theoretically, ICT Haugaland lost both the Producer and the Entrepreneur roles.

423 **4**. Network leadership across three networks – a comparison

In Table 1 below, the most important findings from the three networks are summarised (2006 findings in parenthesis if changed). The table is structured according to the four PAIE leadership roles presented 426 initially (Producer, Administrator, Integrator and Entrepreneur).

The table is of course simplified, and each role should not be viewed in isolation. Indeed, this study confirms one Adizes' (1980) key arguments, namely that the four leadership roles are *complementary*. The point is that each role is important for an organization to function well. This also seems the case with hetworks. If one or more of these leadership profiles are missing or functioning poorly, technical and organizational integration suffers. Furthermore, as networks lack formal authority, the *balance between four PAIE-roles is different* compared to traditional hierarchical public sector organizations.

Looking at Table 1, a first impression is that all three networks did have a more or less functioning 433 ⁴³⁴ *Producer* role. However, only one network at that time had recognized an *Administrator* role: the Moun-435 tain Region alone made an explicit point of 'keeping things in order'. This was also the most technically and organizationally integrated network and has maintained a strong position in the region. A well func-436 tioning network administration was considered vital by key stakeholders. By deciding to formalize the 437 network, political participation was accomplished and recognized. In theoretical terms, the Adminis-438 rator role was flanked by a vigorous Integrator role (mobilization of political expertise). This in turn 439 facilitated a new and much needed arena for the Producers to innovate (the ICT 'pool'). In the Digital 440 District of Agder as well as ICT Haugalandet, the Administrative role was deliberately toned down in 441 2006, if not totally absent. In the former, however, innovations were limited to 'safe' projects to avoid 442 potential conflicts about the location of personnel and institutions. In the latter, the role of Integrator 443 was missing. Lacking both Integrator and Administrator, ICT Haugalandet was struggling despite ac-444 ess to the Producers and enthusiastic Entrepreneurs. Here, however, these two networks chose different 445 paths between 2006 and 2017. DDV further developed the Administrator role, ICT Haugaland did not 446 (or would not) do so. As we will see below, this is important for understanding the further network 447 448 dynamics and development.

In addition, networks to a much larger extent than hierarchies require an *Integrator* capable of bridging institutions. This calls for compromising skills, attentiveness, negotiating experience and holistic judg-

451 ments. In single municipalities, integration is an important task of the local political council. Municipal

Table 1 Leadership in three ICT based municipal networks summarized according to the PAIE scheme 2006–2017			
PAIE roles	The mountain region	The digital west agder	ICT haugalandet
[P] Producer. Emphasis technical issues. Prepares processes and network mod- els. Occupied by getting things done, yet capable of long time planning. 'Keeps the wheels in motion' [A] Administrator. The net- work's bureaucrat. Likes to	 Yes. Probably the most dominating position. The network built 'stone by stone'. Yet, lacking leaders capable of mobilizing external financial support. Yes. The role comes into play among both technical lead- 	Yes. Originally, it varied be- tween sub networks. To- day, a very successful strat- egy aimed at several novel projects. Increased system capacity due to co-location producers. Yes (No 2006). At first consciously avoiding 'red	No (Yes 2006). In the be ginning leaders good at initi ating new ICT projects. No leaders capable of modelling well-functioning superstruct tures and external support. No. As in DDV, consciou about establishing any kine
keep things in order, follow budgets and standards. In- clusive politics that follows rules and regulations. Se- cures political participation.	ers, CEOs and politicians. Partly explains why the net- work early became formal- ized as an inter-municipal company. Substantial politi- cal involvement and support.	tape' formalization and po- litical 'interference'. Grad- ually changed into a full inter-municipal company to achieve better governance, project and budget control.	of 'bureaucracy' or 'polit ical interference'. Expose to several challenges becaus they do not manage to mo bilize external financial sup port. Lacking political sup port
[1] Integrator. Negotiator and reconciler. 'Good with peo- ple' and integration between actors, and establishing trust between professions and lev- els. A social 'fire-fighter' and a master of compromises.	Yes, but of less importance after the network was formal- ized with permanent steer- ing processes, annual plans and boards. Local politicians clearly integrated. Few con- flicts.	Yes, but varies from level to level. Good chemistry between CEOs and ICT managers. Local politicians deliberately not integrated. In 2006, further integration considered to be challeng- ing without political incor- poration.	No. Mainly missing. Sev eral conflicts between levels functions and professions Good milieu between ICT managers. Local politician not integrated. No 'founding father' or reconciling leader.
[E] Entrepreneur. Enthusiast and visionary leader. Sees opportunities and capable of placing ICT on the agenda. Mobilizes personnel and fi- nances. Avoids 'red tape'. Energetic and ready to take risks.	No. Difficult to identify a typical entrepreneur or visionary leader. Little resistance against 'bureaucratization'. Traces of critique concerning capacity to innovate. In 2017, still vital although not typical 'innovators'.	Yes (Partly 2006). No typical entrepreneurs or vi- sionaries in the beginning. Today, a formal company structure that works to real- ize Norway's "e-strategy" gradually replaced the strong resistance against 'bureaucratization'.	No (Yes 2006). Particularl well developed among a few ICT managers in 2006. Som considered the entrepreneur agitating and even provoca tive. Divergent incentives an motivation. Today lackin entrepreneurs, trust and motivation. Dissolved network.

networks that do not manage to incorporate the political level, might well in the end fail not only because

an important stakeholder is ignored, but because local politicians are usually well trained in negotiation
 and compromising.

Finally, networks do not depend on a particular Entrepreneur. As pointed out in the introduction, 455 previous studies of leadership have revealed that public sector leaders on average emphasize the roles 456 of Administrator (A) and Integrator (I) more than leaders in the private sector do (Strand, 2007; Agra-457 noff, 2007). Public organizations are typically designed to minimize private judgements, initiatives and 458 unpredictability among public servants. The room for leadership is made tight, and the Entrepreneur has 459 an uncertain existence in the public sector (Strand, 2007:331). Networks seem to foster the Producer 460 role (P) and the Entrepreneur (E). Without exception, a more or less informal ICT 'club' is established 461 facilitating free dialogue and inspiration. These informal institutional settings facilitate alternative inter-462 463 pretations and critical judgements – and thus innovation. Although this varies, there is reason to believe that networks complement traditional public sector leadership by enabling innovation. 464 However, innovation does not depend on access to a particular 'Entrepreneur'. In the Mountain Re-465

gion, which mainly lacked this figure, significant innovation still emerged, although 'stone by stone'.

A.V. Haug / Innovation and network leadership: The bureaucracy strikes back?

Unlike the two other networks, the Mountain Region also managed to create a well functioning super structure supporting the Producers. The same later happened in DDV. Well-functioning Entrepreneurs
 might indeed initiate interesting technical projects. This is the case particularly at ICT Haugaland, but
 without some sort of superstructure, indefatigable efforts and initiatives are not sustainable long-term.

471 5. Is the PAIE-framework sufficient?

Overall, the PAIE leadership typology has proved to be a helpful tool with which to analyze network 472 management. While there is a certain lack of clarity about the roles and the boundaries are sometimes 473 blurred, both the functions and roles were easily recognised by the informants in this study. There are 474 however two categories that may supplement the PAIE-framework. The first is what we might label 475 *tetwork conductors*, i.e. a leader that manages to link several networks in such a way that seemingly in-476 dependent networks start functioning as a whole. He or she is not necessarily particularly visible, rather 477 operates behind the scenes, pulling strings, giving advice, making connections and building alliances. 478 To achieve this, he or she eagerly takes on assignments such as being on boards in different networks a 479 lifferent levels. A 'network conductor' also constantly visits different networks and single stakeholders, 480 thereby gathering and sharing information about what is going on elsewhere and identifying potential 481 constellations, mutual projects, etc. The most important ability is to 'conduct', that is fostering holistic 482 thinking, synthesising and synchronizing (almost like conducting musical instruments in a symphony). 483 The CEO in Marnadal municipality ('Big Per') is an illustrative example of a 'network conductor'. The 484 initial structure, consisting of three independent networks, caused challenges relating to coordination, 485 technical incongruence and security problems. DDV managed to unite these network structures techni-486 cally as well as organizationally into parallel yet complementary 'networks within networks', which later 487 developed into a more formal structure. ICT Haugaland failed to do this, and lost out due to competing 488 ectional interests. 489 S The second category is dyadic leadership, which occurs when two leaders collaborate in such a way 490 and to such an extent that they dominate the development of a network. Even though single leaders 491 may hold key roles in networks, in each network in our study certain pairs of leaders became apparent. 492 That is, people who work especially well together and form a good team. In the Mountain Region, the 493 administrative leader and assistant CEO in Tynset municipality and the ICT manager constitute such a 494 dyad. The ICT manager has little experience of influencing political and administrative processes. The 495 ssistant CEO does not understand the technology in detail. However, when they join forces they appear 496 as particularly effective leaders, capable of dominating the local network agenda. Similarly in DDV the 497 ICT manager in Mandal municipality and the administrative CEO in Marnadal joined in a highly capable 498 eadership dyad. This twosome is typically referred to simultaneously as 'negotiators' 'mediators' and 499 facilitators'. By a unique 'chemistry' and shared view on important network policies, as well as com-500 plementary skills, exceptionally good cooperation emerges. A third example of dyadic leadership is the 501 professional alliance between the two municipal ICT managers in Tysvær and Karmøy in Haugalandet. 502 However, in this case the leadership dyad did not combine complementary and consolidating skills but 503 ⁵⁰⁴ reinforced an already heavily technically oriented entrepreneurship.

505 6. Conclusion: Innovation and network leadership: The bureaucracy strikes back?

The focus of this study has been to understand the relationship between innovation and network leadership. Three ICT-based municipal networks were studied in Norway in the periods 2005/6 and 2017, some using Adizes' PAIE model (1980) to examine leadership roles in each.

Innovation certainly occurred in all three networks. However, the degree of innovation and the abil-509 ty to sustain it depended to a large extent on the leadership structures in each case. In each network 510 nnovation began with Producers (P) coming together informally to exchange ideas. In the most suc-511 cessful network (the Mountain Region) Producers joined with Administrators (A) and Integrators (I) 512 from the beginning. It took some time for the Producers (P) and the Integrators (I) in the DDV network 513 to overcome their initial suspicion of bureaucrats (A) and pursue integration but when they did, they 514 enjoyed considerable success in innovation. While the Haugalandet network Producers initially showed 515 some Entrepreneurship (E) they were unable to move beyond the informal collaboration stage and the 516 517 network could not sustain itself.

Our study confirms Adizes' findings that the different leadership roles are complementary. In our case, the configuration of the roles turned out to be crucial: not all of the networks combined the roles in the same way. Indeed, somewhat surprisingly, the most successful network did not seem to have an 521 Entrepreneur (E) and the least successful network did.

We have proposed 2 additional categories to supplement the PAIE typology: the network conductor 523 and the leadership dyad.

⁵²⁴ The networks studied here, in Norwegian municipalities, are mainly focused on ICT. We clearly need

more and broader studies to confirm or reject the findings presented. Several studies of network development are necessary – not least to further develop a theoretical framework that can explain the network's presented framework's presented framework that can explain the network's presented framework's prese

For the moment it is worth noting that a common factor in the successful networks was the incorpora-529 tion of the Administrator role in the promotion of innovation: the bureaucracy strikes back!

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