The EuroScan International Network is now the leading global forum for the sharing and development of methods for the early identification and early assessment of new and emerging technologies and their potential impact on health services and existing technologies. Although the name may indicate a European focus, EuroScan is open to organizations with EAA systems from around the world. Indeed Canada was a founder member, and the Australian and New Zealand network joined soon after. Members have also provided expertise on EAA methods, activities, systems and decision making on emerging health technologies to many countries including Argentina, Brazil, Chile, Jordan, Israel, Italy, Panama, Singapore, Thailand, and the United States, and can provide advice and support to organizations considering setting up EAA systems.

A key activity for EuroScan international network members is the discussion of terminology used when referring to this activity and its principal methods. These discussions increase understanding and have significantly changed the terminology used to cover the whole activity from “horizon scanning” and “early warning” through “early identification and assessment” and finally to “early awareness and alert” (EAA) activities and systems. The reasons behind these changes include acknowledgement of the negative connotations of “warnings” when many emerging technologies should be welcomed and encouraged; the recognition that “horizon scanning” is only one (admittedly significant) component of EAA methods; and that effective dissemination of information to policy makers is vital to the whole activity. Throughout this theme section we have asked authors to use the “early awareness and alert” (EAA) terminology.

An effective EAA system identifies innovations in health technology likely to have a significant impact, and disseminates information relevant to the needs of the customer; timely information enables appropriate decision making (such as resource allocation), facilitates appropriate adoption and identifies further research requirements (4). Successful systems will have reliable connections and sources to identify new and emerging health technologies, filter and prioritize these technologies most likely to have a significant impact, and make an assessment of either potential impact or clinical and cost effectiveness. Information from EAA systems can be used to prioritize topics for further primary research; for in-depth assessment, review or meta-analysis; for service, manpower, financial or organizational planning and readiness; for the identification of technologies of low or no added value; or for...
producing and issuing guidance on use in relation to existing technology.

EAA activities were described in a special issue of this journal in 1998 (volume 14; issue 4), with papers contributed by authors from Sweden, the Netherlands, the United Kingdom and Denmark. In the following years the EuroScan International network was established and strengthened. Today it promotes EAA activities around the world and has signed memoranda of understanding with the World Health Organization, Health Technology Assessment International, and the International Network of Agencies for Health Technology Assessment (1). The authors, who also acted as associate editors of this themed section, have witnessed the evolution of EAA activities in the past decade, and supported many different EAA systems in their journeys to meet the needs of healthcare systems and decision makers.

Three papers presented in this section are good examples of the evolution and adaptation of EAA systems to context, including decentralized healthcare systems as in the case of Italy (Migliore et al., in this issue), federal countries such as Canada (Morrison et al., in this issue), and technology driven countries such as Israel (Tal et al., in this issue). Gutierrez-Ibarluzea et al. describe the jointly compiled methods toolkit for organizations considering setting up or reviewing a current EAA system, and outline some of the key differences and similarities in the methods used by comparing the EAA systems of EuroScan’s members.

Future work to develop international EAA activities could be directed toward developing a consistent approach to the identification of each type of new and emerging health technology. This could be supplemented by relevant local sources and a more proactive collaboration with international and local producers, and local users of health technologies. Other means of prioritizing new technologies and assessing their potential for impact could be explored including consideration of the more active participation of stakeholders as proposed by Gallego et al. in this themed section. One of the key questions that EAA systems must answer is how to measure their impact. This has been partially addressed by Packer et al., but other types of evaluation, such as “return on investment” analysis should be also explored.

Although questions about overall impact remain, there is evidence that EAA activities and systems are spreading around the world. Moreover, the need for information about new and emerging technologies in their early stages of development is constant not only for EuroScan International Network member countries, but in countries with a shorter health technology assessment tradition such as South America (Pichon et al., in this issue) or Asia. EAA systems must also be aware of novel technologies such as regenerative medicines and techniques, information and communication technologies, stratified and personalized health care, robotic and remote surgery; and of public health interventions including behavior change; these may challenge evaluation processes and put pressure on health services. Accordingly, our opinion is that EAA systems are guarantors of healthcare systems sustainability by supporting informed and accountable decisions based on the best available evidence along the life cycle of health technologies.

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CONFLICTS OF INTEREST
Claire Packer’s and Sue Simpson’s institution receives a grant and travel expenses from UK National Institute for Health Research for horizon scanning activity. The other authors report they have no potential conflicts of interest

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