Speaker 1:

Welcome to the MIT CISR Research Briefing Series. The Center for Information Systems Research is based at the Sloan School of Management at MIT. We study digital transformation.

Ina Sebastian:

Hi, I'm Ina Sebastian, a research scientist with MIT CISR. Today, I'm pleased to share with you the May 2022 research briefing that I co-authored with professor Jody Hoffer Gittell from Brandeis University: Built Relational Ecosystems to Coordinate Amidst Uncertainty. Increasingly companies partner across industries and sectors in fundamentally new ways to solve complex challenges. For example, the reserve bank of Australia or RBA, and the government agency Services Australia collaborated to provide real-time emergency relief payments to citizens who had lost their homes and livelihoods in the country's 2020 bushfires. The organizations developed an innovative service to deliver more than 233 million Australian dollars in disaster recovery payments directly to Australian citizens' bank accounts as the citizens were requesting help from Services Australia online on the phone or in a service center. The organizations offered the same service in 2021 to deliver COVID support payments.

Ina Sebastian:

The Service leveraged a real-time payment system called the New Payments Platform or NPP that was launched in 2018 by an RBA initiated industry collaboration of 13 banks. Collaborative efforts by organizations in an ecosystem to create new digital solutions like the NPP can benefit participants economically, but such efforts create two coordination challenges, uncertainty and interdependence. Ecosystems must adapt on the fly in response to new information that surfaces and urgent opportunities and challenges like an urgent need to make payments quickly. At the same time, due to participants interdependence, ecosystem leaders must orchestrate decisions across the ecosystem to ensure communal success. The contemporary challenge for digital leaders is how to effectively coordinate ecosystem collaboration. In this research briefing, we describe three managerial levers that can help ecosystem leaders manage this challenge. We then described the ecosystem collaboration to create the NPP and illustrate each managerial lever using examples from the collaboration.C.

Ina Sebastian:

Coordinating Amidst Uncertainty and Interdependence,. Organizational scholars describe relational coordination as the management of relationships and communication within a network of participants. An organization that has high relational coordination has networks with strong relationships. Having shared goals, shared knowledge and mutual respect. That support frequent timely, accurate, and problem-solving communication. The virtuous cycle of relating and communicating helps networks coordinate on the fly in the face of new information. A rich body of research has shown that high relational coordination results in important performance outcomes for organizations like higher quality output, improved efficiency learning and innovation and greater employee engagement and wellbeing. Relational coordination research has identified three categories of inter interventions to which an organization strengthens relationships and communication, which in turn improve performance outcomes, relational interventions focus on strengthening relationships between people. Examples include offering opportunities for people to share their backgrounds and understanding all stakeholders needs when developing a shared goal.

Ina Sebastian:

Work process interventions focus on improving the work itself by using a formal method to make a process more efficient. An example is employing the lean approach for process improvement, which seeks to deliver products and services rapidly in part by connecting people so they can communicate on the fly. Structural interventions focus on formalizing organizational structures that cut across silos to strengthen relationships and open channels of communication. Examples include shared meetings, worlds, and benefits, and the shared technology platform to connect all participants. As an organization communicates more effectively across silos, it further strengthens relationships. More effective coordination can also reinforce an intervention or produce a new one. In our research, we have found that relational coordination is not only key to performance outcomes in organizations, but is also a tool to coordinate ecosystem collaborations. During development of the NPP, the platforms founders effectively coordinated ecosystem collaboration, strengthening relationships and communication in the ecosystem.

Ina Sebastian:

Collaborating to build the new payments platform. As its nation central bank, RBA is responsible for regulating payment system policies via the bank's payment system board. RBA also participates in the payment system as a bank to more than 90 federal government agencies annually conducting 350 million transactions with a total value of just under one trillion Australian dollars. In 2012, RBA conducted a periodic review of the payment system that included user feedback and concluded that the system was unable to make payments quickly, particularly outside of business hours and on weekends. Based on the findings RBA set a goal to provide real time payment services through a new system with 24/7 availability, high speed, simpler addressing of bank accounts, the ability to send information with payments and open access by banks and non-bank. RBA asked the banking industry to design a way to meet this goal and proposed a timeline and next steps for an industry collaboration. To develop a proposal for the request, the industry association Australian Payments Clearing Association, later renamed to Australian Payments Network Limited, formed the real time payments committee made up of executives from seven banks.

Ina Sebastian:

In February, 2013, the committee submitted to the payment system board a proposal, which was accepted, to develop what would be called the New Payment Platform or NPP. A program steering committee was established to ensure continuous coordination between participating banks and RBA. In 2014, the committee formed the not-for-profit organization, New Payments Platform Australia Limited or NPPA, to oversee the further development in operation of the platform. A consortium of 13 banks agreed to participate in NPPA becoming the founding members and shareholders of the organization, funding it and making key decisions. NPPA's mission was to extend the capability of the platform to meet the needs of the Australian payments ecosystem through ensuring safe, reliable, and efficient operations, fair access, and ongoing investment. The five major banks, including RBA each had one voting seat on the NPPA board and the group of eight smaller shareholders jointly elected four seats.

Ina Sebastian:

Through NPPA's board and committees, the banks decided together on how the consortium would make and enforce decisions such as what future capabilities the platform would have. A priority for NPPA was to ensure that participating banks made changes to their platform access gateways and digital channels on a similar timetable so that every bank account of an Australian consumer, business and government agency would be reachable. In 2019, NPPA decided to mandate certain capabilities from participating banks to progress on the organization's mission and to ensure performance and functionality of the platform. In 2021, 76 million bank accounts, comprising most retail bank accounts, could make or receive rapid payments via the platform and more than 105 financial institutions offered payments via the NPP.

Ina Sebastian:

Coordinating the NPP ecosystem collaboration. In its strategic objectives, RBA noted the coordination challenge for this ecosystem collaboration. In its 2012 conclusions from a strategic review of innovation in the payment system, RBA said, "In large part, the market failures that can hold back innovation, the payment system, consists of coordination problems that make it difficult for industry players to agree to implement an innovation that requires collective effort to succeed." Relational coordination offers a lens by which to understand the activities that help the NPP collaboration to successfully navigate uncertainty and interdependence. The collaboration started off with a relational foundation with executives working together in industry bodies, but then ecosystem leaders worked to strengthen relationships and communication to manage the coordination challenge. A shared goal, shared knowledge and mutual respect allowed the platform's founding organizations to communicate effectively and thereby respond to challenges as they arose and make decisions that further their shared goal. The efforts of RBA and its collaborators illustrate how use of managerial levers at the ecosystem level can strengthen relational coordination and help ecosystem collaboration solve complex challenges.

Ina Sebastian:

Relational intervention. In conducting the payment system review and socializing its insights, RBA framed the complex challenge of building a new payments platform clearly and created a shared goal to address the challenge. Work process intervention. The collaboration process RBA proposed, and the organizations designed, strengthened relationships and communication reinforced the shared goal, increased shared knowledge and enabled executives across participating organizations to communicate on the fly in a problem solving way. This process culminated in forming NPPA, the co-governance structure committed to the pursuit of the shared goal. Structural intervention. Mandatory capabilities established in a joint decision through NPPA ensured that each interdependent ecosystem participant would make progress toward the shared goal making more bank accounts available on the platform and achieving greater value for the ecosystem.

Ina Sebastian:

Finding interventions for relational ecosystems. We propose to think of multi organizational collaborations, like the one that built the NPP, as relational ecosystems, and that such collaborations must draw on relational coordination to help lead their efforts. The NPP collaboration demonstrates that a more relational ecosystem, one that leverages relationships and effective communication to respond to uncertainty while supporting interdependence can be better at tackling complex challenges. A more relational ecosystem creates a space for reciprocal sharing, joint problem solving and innovation, even in the face of power differentials. We know these activities are key to performance in MIT CISR research, ecosystems that scored higher on shared goals, mutual benefits and effective information sharing achieved higher ecosystem market shares than ecosystems that scored lower. Start by identifying the managerial levers you are already using to improve coordination in your organization or ecosystems, which of these interventions are opportunities to strengthen shared goals, shared knowledge, mutual respect, and the quality of communication.

Speaker 1:

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