SESAME STREET
COMBINING EDUCATION AND ENTERTAINMENT TO BRING EARLY CHILDHOOD EDUCATION TO CHILDREN AROUND THE WORLD
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Sesame Street at a glance

**EDUCATION LEVEL:**
Early childhood education (children 2–8 years old)

**LOCATION:**
International coproductions in 39 countries, plus television broadcasts in more than 150 countries

**FOCUS OF INTERVENTION:**
Early childhood development, reading, language, mathematics, social and emotional development, and health knowledge and practice delivered through television, radio, videos, print materials, and interactive media

**INTERVENTION OVERVIEW:**
Sesame Street (1969–present), which is produced by the nonprofit organization Sesame Workshop, began as an educational television program in the United States with the goal of preparing children for school by combining entertainment with education. Today, Sesame Workshop has grown into the single largest informal educator of young children around the world, with Sesame Street reaching millions of children in more than 150 countries, including through 39 international coproductions that have been produced and broadcast at various times during the past 46 years. Sesame Workshop uses television, radio, videos, websites, and print content to offer learning opportunities both in and out of school to preschool-age children, particularly in contexts where formal preschool systems are not well established or are beyond the reach of most of the population. In addition to mathematics and literacy skills, Sesame Workshop’s programs address children’s development holistically and teach lessons about health and wellness, emotional well-being, and positive social interactions like encouraging respect and understanding. Although the international Sesame Street coproductions share a universal style, and an approach that mixes education and entertainment, each country’s series is developed by in-country production teams and is based on the needs of the country’s children and its specific education goals.

**TYPE OF LEARNING MEASURED:**
Literacy and numeracy, social and emotional development, health knowledge and practices, and respect and understanding

**COST:**
The cost varies, depending on the amount of oversight, support, and training needed; project elements (i.e., television only, or in combination with radio, community, and school engagement projects); production length; the number of coproduction partners; and the like. Examples: Bangladesh’s total project budget is $17,855 million over 10 years; Kosovo’s is $1.6 million over 2 years; and South Africa’s is $19.1 million over 10 years. The coproductions receive financing from bilateral and multilateral donors, foundations, corporations, and governments. Some projects also generate revenue from licensing agreements (i.e., in Mexico, licensing accounts for 50 percent of Plaza Sésamo’s budget).
**SIZE:**

Direct reach—156 million children per month in more than 150 countries are reached through video content (this constitutes 16 percent of the global population of children between birth and 7 years of age).

**IMPACT:**

**Overall learning outcomes**—A meta-analysis found that children in 15 countries who watched Sesame Street gained, on average, 12 percentile points in learning outcomes (including literacy, numeracy, health and safety knowledge, and social reasoning and attitudes), compared with those who do not watch. This impact (an effective size of 0.29 standard deviation) is comparable to that of other early childhood interventions, with scale being its key distinguishing factor. **Literacy and numeracy**—In Bangladesh and Egypt, 4-year-olds who frequently watched Sesame Street gained nearly one year of learning, performing near or at the same level in literacy and mathematics tests as 5-year-olds who did not watch the show or watched the show infrequently. **Health knowledge and practices**—In Indonesia, children with high exposure to the local Sesame Street performed better on assessments of health knowledge (i.e., identifying body parts or healthy and unhealthy foods) than children with low or no exposure. Children in South Africa and Tanzania showed greater gains in HIV/AIDS knowledge and attitudes after watching Sesame Street than their nonviewing peers. **Respect and attitudes**—In Kosovo, children who watched one of the local versions of Sesame Street were 74 percent more likely to demonstrate positive attitudes toward children from different ethnic backgrounds than those who did not watch. In Egypt, 4- to 6-year-olds who watched frequently scored higher on measures of gender equity attitudes than those who watched less.

**Background**

Beginning in the 1960s during the height of the civil rights movement in the United States, a series of influential studies of education in the country demonstrated that upon beginning first grade, low-income and minority children scored substantially lower on tests of school-readiness skills (i.e., letter recognition, counting, self-control) than their white, middle-class peers (Deutsch 1965 in Palmer and Fisch 2001; Bereiter and Engelman 1966). Worse, studies showed that gaps in school readiness had a cumulative effect. Children who start primary school with cognitive delays are more likely to go on to repeat grades, drop out of school, and engage in risky behavior (Grantham-McGregor et al. 2007 in Mares and Pan 2013). This then translates even further down the life span in adolescence and young adulthood into inequalities of opportunity that impede the social and economic mobility promised by an education (Engle et al. 2007; Grantham-McGregor et al. 2007; Naudeau et al. 2011; Walker et al. 2011 in Mares and Pan 2013). In short, developmental gaps and disadvantages that could have been filled or reversed by quality early childhood education (ECE) before the child entered primary school are left to grow bigger and bigger.

In recent years, global rates of preschool enrollment have increased—by 64 percent between 1999 and 2012—helping 184 million children prepare for school (UNESCO 2015). However, less than 50 percent of children attend a preprimary education program in most countries, and the children most likely to benefit from ECE programs (including those whose mothers have low levels of schooling, those who are most socioeconomically disadvantaged, live in rural areas, and/or are exposed to malnutrition and preventable diseases) are the least likely to be enrolled (UNESCO 2006; UNICEF 2014). This is very alarming, given that more than half of a child’s lifetime intellectual capacity is formed by the time he or she turns five (Bloom 1964). However, despite the evidence, ECE continues to be a low-priority item in many government budgets. According to a UNESCO report published in 2015, one-fifth of the world’s countries—concentrated mostly in Africa and the Middle East—have fewer than 50 percent of children enrolled in preschool (UNESCO 2015). And those opportunities for preprimary education that do exist may be poorly funded and may be provided by caregivers with little or no training (UNESCO 2006).

In this context, children’s educational television programming has emerged in many countries as an important source of ECE—especially in those parts of the world where more preschool-aged children watch television than are enrolled in preschool. Although some studies in the United States have pointed to the potentially negative effects of very young children’s exposure to television programming, especially the effects of entertainment television on children’s educational achievements, studies from around the world have found significant positive effects of exposure to informative programming on children’s cognitive skills (i.e., vocabulary, reading, and mathematics) and school readiness (Linebarger and Walker 2004).
especially the case when programming is child-relevant, age-appropriate, and provides direct educational messaging (Cole, Labin, and Galarza 2008).

Sesame Street has led these interventions, as one of the most widely viewed and recognized children’s educational television series in history. The series was conceived against the backdrop of ECE in the United States described above, and its creators envisioned a program that would both entertain and educate, helping to provide ECE learning opportunities to its target audience of preschool-aged children with—especially those underprivileged children—who did not have access to preschool education (Fisch 2004).

Taking Sesame Street around the world

Sesame Street’s initial broadcast in the United States in 1969 reached more than 1 million preschoolers by the end of its first season. Forty years later, Sesame Workshop, the nonprofit organization behind Sesame Street, is the largest single educational media producer in the world, engaging 156 million children a week in 150 countries with all its educational video programming (Cole, Richman, and Brown 2001; Sesame Workshop 2013, and personal communication, June Lee and Jenny Perlman Robinson, April 22, 2015). In Latin America alone, Plaza Sésamo reaches 15 million children a week (Jorge Baxter, interview by Daniela Petrova, March 19, 2015). Though many countries continue to dub Sesame Street into the national language, since the 1970s there have been 39 different international coproductions of Sesame Street, each with its own local name, its own Muppets (i.e., the series’ puppet characters), and its own educational objectives designed to meet the educational needs of local children. Today, international versions of Sesame Street are coproduced in Afghanistan, Bangladesh, Brazil, Germany, the Gulf states, India, Latin America (Colombia and Mexico), the Netherlands, and South Africa, while more countries have ongoing broadcasts of coproductions (personal communication, June Lee and Jenny Perlman Robinson, February 19, 2015).

According to Charlotte Cole, founder of the Blue Butterfly Collaborative and former senior vice president of global education at Sesame Workshop, the preferred method of global expansion for Sesame Workshop was to respond to requests made by international producers and to collaborate with local production teams that created and produced their own local versions, or “coproductions,” of the series (Cole 2009). The contextual conditions in which these collaborations have been initiated have varied over the years, and from country to country. For example, the Mexican coproduction, Plaza Sésamo, debuted 43 years ago at a time when the president of Mexico, Luis Echeverria, and other public officials were criticizing private television’s content and advertising. Producing Plaza Sésamo was a way for the local producer and broadcaster, Televista, to respond to these critiques (Baxter 2016). The Israeli and Palestinian coproductions, Rechov Sunsum / Shara’a Simsim, began shortly after the 1993 handshake on the White House lawn between Israeli prime minister Yitzhak Rabin and Palestine Liberation Organization leader Yasser Arafat. A funder approached Sesame Workshop—or, as it was called at the time, the Children’s Television Workshop—with a request for programming that would take advantage of this time of hope in the Middle East and help break down cultural stereotypes and teach young Israeli and Palestinian children about each other (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015). Also, Sesame Workshop’s first program tackling HIV began in South Africa in 2002, when Takalani Sesame’s South African partners identified the need for educational efforts to address HIV/AIDS in a country where many were infected with or affected by the disease, but where its stigma fostered silence and misinformation. Several years later, Kamili, the first HIV-positive Muppet, was created for Takalani Sesame to humanize individuals affected by HIV/AIDS and to break the culture of silence around the disease.

In addition to reaching children through various media platforms, Sesame Workshop seeks to involve parents/caregivers and teachers to promote continued learning in the home and to reinforce messages in school. For its school-based projects, the workshop creates teacher resources (i.e., educator guides or teacher training videos) to support teachers in using Sesame materials in the classroom (personal communication, June Lee and Jenny Perlman Robinson, November 30, 2015). These modules, each funded by IDP (a private, grant-making nonprofit), are introduced by a Ghanaian teacher-host and two local Muppets, and provides guidance on topics like time management, positive discipline, and child-centered approaches to learning. Teachers also receive educator guides, DVDs, and classroom materials to reinforce key messages (Sesame Workshop n.d., a). In India, Sesame Workshop provides additional support to teachers using accessible platforms like integrated voice response systems and text messages on mobile phones; teachers can leave questions, share best practices, and receive reminders about weekly lessons to be conducted (personal communication, June Lee and Jenny Perlman Robinson, November 30, 2015).

As Sesame Street was adapted to new contexts, Sesame Workshop began to notice that many of the vulnerable and disenfranchised children it aimed to reach tended to live in areas lacking access to electricity and equipment like televisions and computers. As a result, the workshop began to broaden its content delivery methods to include lower technologies delivered through community organizations (Cole 2009). In India, for example, as part of its efforts to reach all children, including those in urban slums without access to formal preschool education or reliable sources of electricity, Gali Gali Sim Sim used a repurposed vegetable cart equipped with a television set and a DVD player to make regular “house calls,” engaging
children in the narrow alleys of their neighborhood with special screenings and educational activities. Local facilitators enhanced the viewing experience by asking children content-related questions, and the program’s mobility enabled the educational content to reach numerous children—including two out of three preschoolers in targeted slum areas—who lived in urban slums with narrow alleys that were difficult to navigate (Cole 2009; 173, Sesame Workshop n.d., c). In Afghanistan, the workshop developed its first program where radio and television have an equal role and where production material for the two mediums is developed in parallel, rather than one adapting material from the other. And in Mexico, starting in the early 1990s, Plaza Sésamo began outreach efforts utilizing video in classrooms as a way to increase impact and to engage the community. Over time, these efforts evolved to include books, board games, posters, storybooks, and community events in various institutional settings, such as schools, community centers, and hospitals. By the mid-2000s, Plaza Sésamo had launched several large-scale community engagement programs in countries throughout Latin America. These projects focused on concerns relevant to the local population, such as health (Colombia and Mexico), road safety (Costa Rica and Mexico), and disaster preparedness (Chile, Colombia, and Mexico) (Jorge Baxter, interview by Daniela Petrova, March 19, 2015).

In the past few years, Sesame Workshop has also introduced a shift in emphasis from knowledge building to behavioral change, and it has launched a few global-themed initiatives that respond to shared issues across a number of countries. According to Stephen Sobhani, the workshop’s former vice president of international social impact and philanthropy, research revealed that some countries share similar needs in areas of health or ECE, having a project respond to these needs collectively across countries could reach larger numbers of children while lowering project costs (Stephen Sobhani, interview by Daniela Petrova, March 24, 2013). One such project—Cleaner, Healthier, Happier, funded by the Bill & Melinda Gates Foundation—is a multimedia, research-driven sanitation and hygiene project targeting children (ages 3 to 7 years) and their caregivers in Bangladesh, India, and Nigeria. The project uses a combination of mass media shared across these countries and community-based activities to suit each country. In-country research helps to identify in-country strengths and infrastructural limitations, in order for the program’s delivery methods to be tailored to suit each country’s unique contextual conditions. In Bangladesh and India, for example, Sesame Workshop organizes community viewings of video content on sanitation and hygiene, accompanied by print materials and mediation by a trained facilitator. In Nigeria, the project takes the form of a school-based intervention with a series of comic books, theater activities, and a DVD (Sesame Workshop 2016). Across all three countries, the program uses a shared girl Muppet named Raya, which the workshop created to help give voice to girls, in response to evidence that issues of sanitation and access to water disproportionately affect girls and women (Nada Elattar and Stephen Sobhani, interview by Daniela Petrova, March 24, 2015).

Impact and evidence of success

Sesame Workshop has benefited from more than a thousand studies (both proprietary and independent) focusing on Sesame Street, which have made it the most researched television series, and its impact on children one of the best-documented in the history of the media (Cole 2009). The workshop itself focuses on four broad categories of learning—literacy and core academic skills (i.e., science and mathematics, financial literacy); emotional well-being (i.e., resilience); health and wellness (i.e., healthy habits, disease-specific knowledge and prevention, road safety); and pro-social interactions (i.e., mutual respect and appreciation of differences, desegimentalization of diseases and disability, gender equality)—leaving each coproduction to identify specific learning goals (Cole, Labin, and Galarza 2008, Cole, Koter, and Pai 2010, Sesame Workshop n.d., d). In the U.S. context, both short-term and long-term studies have shown that the program is an effective learning tool for children, especially those from disadvantaged backgrounds, with the academic advantages associated with viewing the series as preschoolers, which last well into adolescence (Anderson et al. 2001, Wright et al. 2001, and Kearney and Levine 2015). Globally, research focusing on the workshops international coproductions has demonstrated that the model has a positive impact across cultures, including the effect of introducing educational content that has not been addressed previously by the original U.S. production, such as an emphasis on aesthetics in Zhema Je (China), or on preparing children for life in a new, open society in Ulitsa Sezam (Russia) (Fisch 2004).

A recent meta-analysis synthesized the results of 24 studies conducted with more than 10,000 children in 15 countries (low-, middle-, and high-income countries) outside the U.S., and found significant positive effects of watching Sesame Street, or one of its international coproductions, across a number of learning outcomes, including literacy and numeracy; learning about science, the environment, and health and safety-related practices like hand washing; and pro-social reasoning and positive attitudes toward out-groups associated with long-standing hostilities. Specifically, the meta-analysis found a 12-percentile gain in such learning outcomes made by children who watched more Sesame Street, compared with other children who watched less or with themselves when younger. This amounts to an effect size of 0.29 standard deviation, which is comparable to other early childhood interventions designed to improve the quality and amount of cognitive stimulation available to children, such as on-site preschool programs and training provided to caregivers (Mares and Pan 2013). The primary difference between these interventions and Sesame Street is the sheer scale at which Sesame Street operates.

Examples of specific country outcomes include a longitudinal study in Bangladesh of more than 6,000 children, which found that children who had been exposed to Sisimpur (the local version of Sesame Street) made gains in literacy, mathematics, and sociocultural skills equivalent to those of children one year older with no exposure to Sisimpur. Gains in letter recitation, vocabulary, counting, and sociocultural knowledge were made over a 2-year period. Moreover, children in rural areas and lower-income urban households in Bangladesh benefited the most from watching the series (Lee 2008).
2009). Similar results in math and literacy have been found among 4-year-olds who watched Alam Simsim in Egypt, compared with 5-year-olds who watched little or none of the series (Sesame Workshop n.d., b). And in Indonesia and Tanzania, research studies found significant postintervention improvements among children who regularly watched Jalan Sesma (Tanzania) or Kilmani Sesame (Tanzania) in tests of such early cognitive skills as letter recognition, number recognition, and counting, as well as health and safety knowledge, social development, and environmental and cultural awareness (Barzekowski and Mачa 2010, Barzekowski and Henry 2011). In Colombia, a study showed that Sesame Workshop’s classroom educational materials (specifically, the workshop’s Healthy Habits storybooks, posters, video games, and songs) improved knowledge, attitudes, and habits related to healthy diet and active lifestyles, and that changes were sustainable over one year. Researchers attributed the success of the intervention to its “fun while learning” approach, which may have helped to increase children’s attention and motivation to learn (Cèspedes et al. 2013).

In addition, Sesame Workshop has helped to raise awareness of the importance of ECE and children’s development around the world, including in Bangladesh, India, and the Latin American countries. The workshop accomplishes this advocacy through both top-down and bottom-up strategies—for example, by including Ministry of Education officials in local advisory boards; disseminating research on its programs’ impact to key decisionmakers; producing public service announcements and outreach efforts that accompanied community screenings of Sisimpur and engaged with their children, and an increased appreciation for actively engaging with their children (i.e., through storytelling) (Kabria and Jain 2009, Kabria n.d.). Sesame Workshop has also successfully influenced national ECD policy; for example, in South Africa, its educator training was registered as a unit standard by the South African Qualifications Authority as a Level 5 training for a Professional Diploma in Education (personal communication, June Lee and Jenny Perlman Robinson, June 2, 2015).

As a testament to its positive impact, Sesame Workshop’s portfolio of international children’s television programming has also received several national and international accolades. Among these, Rechov Sumsum (Israel) won the Japan Prize Foundation’s President Prize in 1998; in 2005, Takalani Sesame’s “Talk to Me” television special (South Africa) was honored with the Governor of Tokyo Prize in the Japan Prize contest, a George Foster Peabody Award, a Golden Hugo from the Chicago International Film Festival, the Gold Intermedia-Globe from the World Media Festival, and the Rose d’Or Festival, the Gold Intermedia-Globe from the World Media Festival, and the Rose d’Or. In 2010, the Indonesian Ministry of National Education awarded Jalan Sesma a certificate of appreciation for its positive child programming. In 2014, “Plaza Sésama: Monsters on the Web” (Colombia) was nominated for an International Emmy in the category of best international children’s program (Cole and Lee 2016).

Timeline of key events

- 1966: Joan Ganz Cooney and Lloyd Morrisett, who will become Sesame Street’s cofounders, conduct a feasibility study on children and television, demonstrating the possibility of helping children in underserved communities in the United States prepare for school.
- 1969: Sesame Street first airs in the U.S., reaching millions of preschoolers by the end of its first season.
- 1972: Sesame Workshop’s first international coproductions air in Brazil (Vila Sésamo) and in Mexico (Plaza Sésamo).
- 1994: Coproduction of Sisimpur in Indonesia, the West Bank, and East Timor.
- 1995: Sesame Street has aired in more than an estimated 120 countries.
- 2000: Jaksoni Sesme debuts on television and radio in South Africa.
- 2006: Goli Gali: Sim & Sam launches in India.
- 2014: Sesame Street launches its 45th season in the U.S.
Key drivers behind scaling impact

Given that Sesame Street is one of the best-researched and best-documented children’s educational programs in the history of television, what has it taught us about scaling up early childhood education and learning? According to those at Sesame Workshop, the idea was simple: use television to help children learn. This idea was particularly revolutionary and timely for children who had little or no access to ECE opportunities but had ample access to television or other media technology. Moreover, by targeting preschool-age children through a device to which they were already drawn, the workshop’s primary task was to create fun and engaging content—something that was not “preachy or teachy”—and characters with whom children could establish an emotional connection (Rosemarie Truglio, interview by Daniela Petrova and Jenny Perlman Robinson, March 5, 2015). In short, Sesame Street needed to be comprehensive but unique enough so children everywhere would respond to it (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015; Jorge Baxter, interview by Daniela Petrova, March 19, 2015; and Stephen Sabhani, interview by Daniela Petrova, March 24, 2015).

To achieve this, Sesame Workshop’s experimental approach, collaborative nature, and responsiveness to local needs have functioned as key drivers of the Sesame Street model for scaling up this program around the world. In addition, the workshop’s scaling-up journey has benefited from a confluence of a number of other factors—including its timing in the market of children’s television, its emphasis on creating locally relevant content, its integration of research throughout the production process, its network of committed and like-minded partners, and its diverse approach to sustainability.

Being at the right place at the right time

First and foremost, one key factor contributing to Sesame Workshop’s global expansion was its sheer timing. First, the workshop was in the right place at the right time in terms of the market evaluation of television (Jorge Baxter, interview by Daniela Petrova, March 19, 2015). In the words of the workshop’s visionary founder, Joan Ganz Cooney, “The wasteland of children’s television [in the 1960s United States] was too vast, and the yearning for something better too great” (Cooney 2001, x). Sesame Street was the first of its kind, combining imaginative and innovative content with an explicit educational focus (Jorge Baxter, interview by Daniela Petrova, March 19, 2015). And its early entry into the market gave it a significant competitive edge within the space of children’s television.

Globali, the timing of Sesame Street has also been important to its success. According to Shari Rosenfeld, senior vice president of international social impact at Sesame Workshop, when Sisimpur first aired in Bangladesh, the television landscape was wide open. There was only one TV channel, which made it easy for the workshop to gain traction (Shari Rosenfeld, interview by Daniela Petrova, March 31, 2015). In India, Galli Galli Sim Sim debuted in a dynamic, competitive, emerging market environment, which created its own set of challenges. However, the conditions were nonetheless conducive to introducing the television series. There was a need, it was a time of change for the country, which had recently seen education take central focus as the ticket out of poverty (Sashwati Banerjee, interview by Daniela Petrova, March 19, 2015). And as its brand continued to grow, local teams found it easy to secure meetings with high-level officials who were eager to associate with a well-regarded brand (Shari Rosenfeld, interview by Daniela Petrova, March 31, 2015).

Second, Sesame Workshop was in the right place at the right time in terms of consumer television viewing trends. In low-income communities in the United States, for example, researchers estimated that children between the ages of 2 and 3 years watched, on average, 16 hours of television each week (Wright et al. 2001). In the 1960s, as television was becoming ubiquitous in the United States, and later across low-income countries around the world, television was becoming the primary, if not the only source of informal education or cognitive stimulation for preschool-aged children (Mares and Pan 2013). Data from the 1970s indicate that between 28 and 36 percent of children between the ages of 2 and 5 watched Sesame Street, compared with 9 percent, 19 percent, and 57 percent of children ages 3, 4, and 5, respectively, who attended preschool and kindergarten at the time (Cook et al. 1975 in Kearney and Levine 2015). When Sisimpur debuted in Bangladesh, roughly 10 percent of preschool-aged children were enrolled in preschool, whereas nearly 50 percent of children watched television on a daily basis (Khan et al. 2007). Television thus posed the perfect opportunity to reach millions of children.

Balancing core nonnegotiables with tailored, culturally relevant content

Today, Sesame Workshop’s international coproductions retain the essence of the original U.S. version—its style, target age group, core learning goals, and core principles (to use media to meet the educational and developmental needs of young children and to develop engaging content that connects emotionally with preschool-aged children). At the same time, coproductions are tailored to speak directly to the unique educational needs of local children and their caregivers. This balance between maintaining Sesame’s core nonnegotiables and remaining flexible and adaptable has helped the workshop to sustain Sesame Street’s educational integrity and quality for more than 40 years, to communicate a clear set of values to parents, educators, governments, and partners, and to create a recognizable global brand (Jorge Baxter, interview by Daniela Petrova, March 19, 2015). At the heart of this balancing act is the Sesame Street model for international adaptation—a collaborative process of “inform, improve, measure, and repeat” that takes place no matter the country context among a team of local educational content specialists (ranging from cultural studies to sociology, gender studies, art, music, health and environmental studies, mathematics, and literacy), researchers, child psychologists, and television producers. The workshop’s philosophy...
has been to steer away from imposing American sensibilities on its international coproductions, aiming instead to provide a framework for an educational program that could be created for each particular country by local educators and an in-country production team that would respond to local educational needs (Fisch, Truglio, and Cole 1999).

Briefly, Sesame Street’s coproductions begin with a needs assessment conducted at the initiation stage to determine whether there is support for the project among educators, government entities, and within the broadcasting and production communities (Cole, Richman, and Brown 2001). For example, when invited to explore the potential for creating a program in South Africa in the early 1990s, Sesame Workshop’s team identified a clear need for the project after completing an in-country fact-finding trip, but due to the political environment at the time, it decided to wait until the end of apartheid, when it would be more feasible to begin a production project (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015). In many other instances, feasibility assessments have revealed a need for high-quality educational programs for young children, and that a Sesame Street project would help to fill an important gap in ECE.

The needs assessment is followed by a curriculum seminar or advisory meeting, which outlines the project’s educational objectives, including the specific messages that educators want to convey to children (Fisch, Truglio, and Cole 1999). This framework serves as the backbone for the coproduction, as well as the foundation upon which all production materials and further research are based (Cole 2009).

Once the objectives have been identified, local producers and writers are then responsible for developing educational content and the creative elements of the production, adhering to Sesame Workshop’s consistent style (i.e., a colorful set, animations, live action films, and the whimsical, humorous Muppets puppets) (Rosa Maria Truglio, interview by Daniela Petrova and Jenny Perlman Robinson, March 5, 2015; Jorge Baxter, interview by Daniela Petrova, March 19, 2015). Education specialists are an integral part of the production process, reviewing scripts with the production team and providing input on an educational integrity, and developmental and cultural appropriateness. And, when needed, Sesame Workshop provides training in puppetry and coaching for new puppeteers, sometimes in collaboration with other coproduction teams (Rosa Maria Truglio, interview by Daniela Petrova and Jenny Perlman Robinson, March 5, 2015). Recently, for example, new puppeteers playing Zari, Sesame Workshop’s first girl Muppet in Afghanistan, trained with seasoned puppeteers from the India team in Delhi. Meanwhile, researchers provide feedback on the appeal and comprehension of program’s components and segments through formative research with children (and, where appropriate, adults) that is conducted throughout the production process. When possible (i.e., when resources allow), third-party evaluators are commissioned to assess the program’s educational impact at the end of the broadcast season or at the end of the project. Such summative evaluations are a rigorous way to examine the program’s effectiveness and improve future programming (Fisch, Truglio, and Cole 1999; Cole, Richman, and Brown 2001).

Together, these core nonnegotiable components—a needs assessment; formative research; curriculum-driven programming; a collaborative production process; country-relevant content; a consistent style; and impact evaluations—constitute the Sesame Street model. This model allows every coproduction around the world to share Sesame Street’s look and feel. But its production is highly flexible; its application is different from context to context, and its content is tailored to and delivered according to the unique educational needs of children and the pedagogical norms of each culture. For example, Plaza Sésamo (Latin America) features regional settings, music, and characters created specifically for children in the Latin American countries. It also includes local puppeteers (trained by Sesame Workshop) and a mixed cast of Panamanian, Argentinean, and mostly Mexican performers. A board of local advisers determined the coproduction’s educational goals. And local education specialists developed a curriculum that differed from the U.S. production, in that it included greater emphasis on critical thinking and taught literacy using a more contextual approach that stressed whole words, phrases, and sentences rather than individual letters (Jorge Baxter, interview by Daniela Petrova, March 19, 2015).

According to Jorge Baxter, the workshop’s Latin America director of social impact and philanthropy, the decision to create content matching the priorities and needs of local children was crucial for the globalization of Sesame Street. Children respond to things that match their reality, and to the characters, children, and adult actors who look and talk like them. Striking a balance between Sesame’s core nonnegotiables and its flexible adaptation has enabled Sesame Workshop to maintain the essence and integrity of the program, but also to ensure local appeal and relevance (Jorge Baxter, interviews by Daniela Petrova, March 5 and 19, 2015).

Conducting research, from inception through production and beyond

The processes behind Sesame Workshop have been described as an arranged marriage between research and production (Cooney 2001). That is, research, both formative and summative, has played a prominent role in the Sesame Street model from the inception of a new project partnership through content creation, production, and beyond.” Even before starting the program in the United States, the workshop’s founders consulted with child psychologists, educators, and filmmakers to determine whether television could serve as an educational tool (Fisch 2004). Even Joan Ganz Cooney, one of Sesame’s founders, has said that “without research, there would be no Sesame” (Cooney 2001).

Every season of Sesame Street is an experiment, as is every coproduction, considering how each is specifically adapted, created, and designed to meet local needs and contextual conditions.
As Stephen Sobhani, put it, “At Sesame Workshop, we don't talk about children; we talk to children” (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015). Stephen Sobhani, interview by Daniela Petrova, March 24, 2015). Formative research during the production process and a summative evaluation at the end of the season or project are thus vital in providing feedback to Sesame Street’s creators and production teams. It is particularly important that formative studies bring the voice of the child into the production process and allow the team to learn directly from its audience. So, though the Sesame Street model is the cornerstone of Sesame Workshop's global success, the glue holding it all together is the integration of research into the production process, mixed in with the spirit of experimenting with content, testing new ideas, and critically examining its impact.

The centrality of research has also enabled Sesame Workshop to learn from its mistakes and to make important course corrections as necessary. To illustrate, coproduction teams need to know whether characters and the studio sets they inhabit reflect the particular national culture. In Mexico, one of the first countries (Jorge Baxter, interview by Daniela Petrova, March 19, 2015). Formative research has allowed coproduction teams to fine-tune messages during the production process. According to Ellen Buchwalter, vice president of international philanthropy and development at Sesame Workshop, “we may write a wonderful script, but when we test it on kids, it can fall flat. So we have the opportunity to go back to the proverbial drawing board and make changes. For instance, in content addressing healthy habits, researchers demonstrated that the original message of “eat your broccoli” was not working with children, so it was changed to “eat all of your colors,” a much more effective message among the show’s target audience (Ellen Buchwalter and Anita Stewart, interview by Daniela Petrova and Jenny Perlman Robinson, March 26, 2015).

The introduction of new technology for content delivery has necessitated the development of new methods of research. For example, a decade ago, when Sesame Workshop started the production of radio content for Talalani Sesame in South Africa, the team had to develop new approaches for observing children’s interactions with radio and their learning from it (Desmond et al. 2000). Observation techniques, such as eyes-on-screen that had been used in television, were useless for radio.

Identifying like-minded partners

From its inception, Sesame Street has channeled the collaborative expertise of educators, artists, researchers, television producers, and parent outreach workers to bring quality early childhood development programming to many communities around the world to countries where none formally exists. But this collaboration extends beyond the programming. The long-term success of Sesame Workshop has also depended on the support of a broad base of partners, including broadcasters, local production partners, government ministries, the education and academic communities, funding agencies, local nongovernmental organizations, and other private and public partnerships. The workshop’s efforts would not be possible without the cooperation of these networks of key stakeholders at the local level. Especially important have been the workshop’s partnerships with private and public actors that could also invest financially in the program, including the Children’s Investment Fund Foundation, which invested in Sesame Workshop India; the Bill & Melinda Gates Foundation, which invested in sanitation and hygiene projects in Bangladesh, India, and Nigeria; and MetLife Foundation, which invested in a financial empowerment project in nine countries (Jorge Baxter, interview by Daniela Petrova, March 19, 2015).

Furthermore, when questioning children, the team had to introduce different types of prompts from the ones used to study reactions to television content (Cole 2009). The same has been true with the introduction of other technology, such as computer games and tablets.

As the curriculum and goals are determined for each country, Sesame Workshop looks for partners who share the same goals, are willing to invest in the program, and can be effective local “stewards” of the brand (personal communication, Jorge Baxter and Jenny Perlman Robinson, May 29, 2015). To illustrate, the Takalani Sesame project in South Africa began with support from the U.S. Agency for International Development. But from its inception, the program also formed a partnership with Sanlam, a financial services company with deep roots in South Africa. Sanlam fully embraced the show and its team, extending its commitment beyond funding to organizing community events, providing workshops for parents and caregivers, and distributing educational publications. According to Sesame Workshop, Takalani Sesame and Sanlam have become synonymous in the minds of South Africans, contributing to Sanlam’s image as a caring company (Ellen Buchwalter and Anita Stewart, interview by Daniela Petrova and Jenny Perlman Robinson, March 26, 2015).

In Latin America, Plaza Sésamo’s project team has learned that it is not enough to engage teachers and communities by supplying them with materials and expecting that these will be used. Rather,
the team has learned to plan in advance how to distribute content and how to support teachers, especially in helping them integrate materials into their lessons. Now, before undertaking a project, Plaza Sésamo’s team—as do all project teams around the world—ascertains whether it has the right partners, networks, and local infrastructure to implement the project, aiming to build local capacity and sustainability into its programs. The team also tries to match donor opportunities with its longer-term educational and business agendas. Learning from its experiences, the team has developed specific criteria to enable it to better select and work with partners (Jorge Baxter, interview by Daniela Petrova, March 19, 2015).

According to Sesame Workshop, its partners like the organization’s processes—from the needs assessment and formative research to the impact evaluation. They appreciate the workshop’s long-term view and planning and its broad reach, as well as how it has scaled up projects and has proven its impact (Ellen Buchwalter and Anita Stewart, interview by Daniela Petrova and Jenny Perlman Robinson, March 26, 2015; Stephanie Drozer, interview by Daniela Petrova, April 10, 2015). It also helps that project teams are in constant communication with their partners, building relationships and providing the right level of support for each team. To a degree, the workshop and its programs have become integral components of their partner organizations, sometimes to the point where the show has become an important part of the partner organization’s corporate social investments, as has been the case for Takalani Sesame and its corporate partner and donor, Sanlam, in South Africa (Ellen Buchwalter and Anita Stewart, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015).

Planning for financial sustainability

According to its creators, Sesame Street started under close-to-ideal conditions. At its inception, Sesame Workshop received a grant of $8 million from the Carnegie Corporation for a 2-year project. This generous funding enabled the team to spend nearly 18 months planning and experimenting with different program approaches before debuting on the air. It also enabled the team to enlist a major promotion and public relations firm and to involve the Education Testing Service, a prominent third-party evaluator, to assess the series’ educational effectiveness (Palmer and Fisch 2001). Similarly, some of the workshop’s major international coproductions were initiated at the request of a funder or a broadcaster that was willing to fund the project itself—or at least had a way to fund the project. Over the years, the workshop’s projects have received funding from a range of corporate, broadcasting, foundation, government, and bilateral/multilateral sponsors. And as the workshop’s brand became more closely associated with promoting educational aims around the world, its funding sources began to see a shift toward more grants from international development. It even began to write proposals seeking funding for specific projects with development institutions (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015).

When it comes to sustainability, Sesame Workshop approaches the question of longevity in two ways: Is the goal to sustain a project over time, or is it to develop a certain set of skills? The workshop has been around for more than 40 years, but some projects came to a close because they exhausted their purpose and there was no longer a need, or because they reached the end of funding. At the end of the day, the workshop aims to build capacity through training and education so that its international project teams will become self-sustaining, whether this means that a program ends upon losing its funding or continues to seek additional sources of funding depends on its context and goals (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015).

In the case of the latter, Sesame Workshop has explored different approaches to financial sustainability. In most cases, this has meant forming partnerships with a local organization that has a strategic interest in the program, as in the case of Kosovo and Northern Ireland. Over the years, many local partners have had the incentives to invest the time and energy needed to keep the program going. For Kosovo, because the goal for the coproduction was to help children develop a specific body of skills and developmental assets, sustaining the program meant ensuring that episodes had a long shelf life and could be rebroadcast even after production had ceased (Shari Rosenfeld, interview by Daniela Petrova, March 31, 2015). Also, the first three seasons of Plaza Sésamo in Mexico were funded by large corporate donors. When this funding was exhausted, the coproduction rebroadcasted the first three seasons while the team searched for additional revenue and a sustainable means of support. Several years later, Plaza Sésamo’s business model shifted to include ancillary business opportunities, including a licensing component and content distribution. At this point, the research proved an invaluable addition to help leverage the power of Sesame’s brand to generate revenue with a line of toy merchandise manufactured by Mattel. Licensing soon came to account for one-third of Plaza Sésamo’s revenue. Today, as the media landscape in Latin America continues to be flooded with children’s brands, Plaza Sésamo’s business model is again shifting, to include new sources of support through partnerships with local governments and foundations (Jorge Baxter, interview by Daniela Petrova, March 19, 2015).
Maintaining flexibility to adapt and change

Sesame Workshop’s flexibility to change with the times and to accommodate different approaches have been essential to its long-term sustainability and its expansion to international contexts (Cole 2009; Jorge Baxter, interview by Daniela Petrova, March 19, 2015). This has included making changes to its content, format, and delivery; experimenting with technology, different financing models, and auxiliary experiences like a theme park; and forging new partnerships outside its core network of supporters, like HBO in the United States. As mentioned earlier in this study, Sesame Workshop’s educational curriculum has even expanded to include both an emphasis on building knowledge and on motivating behavioral change, as illustrated by its global-themed initiatives in worldwide health, financial empowerment, and sanitation and hygiene (Jorge Baxter, interview by Daniela Petrova, March 19, 2015).

Sesame Workshop’s success in some of the most challenging locations around the world can also be attributed to its flexibility and adaptability. For instance, its coproductions in conflict or postconflict areas presented numerous challenges to which teams had to respond, such as logistical issues (i.e., travel and mobility), interpersonal issues (i.e., dealing with people holding different opinions on an issue), and finding diverse talent. Other challenges have included navigating government bureaucracies and changing political relations between groups. In such cases, Sesame Workshop’s teams have had to adapt their production process to the conditions, changing the method of engagement (Charlotte Cole, interview by Daniela Petrova and Jenny Perlman Robinson, March 6, 2015). To illustrate, in the first Israeli–Palestinian program, the coproduction team initially imagined a shared street between Israeli and Palestinian characters, but it quickly learned that there was no such space where the two sides were comfortable sharing. In the end, the producers created a Palestinian street and an Israeli street, and the characters met by invitation. When the coproduction team later worked on the Israeli–Palestinian–Jordanian version of the series, the political realities on the ground had changed dramatically, so it was no longer authentic to show Muppets and children meeting each other, even by invitation. In the words of Shari Rosenfeld, “We try to be inspirational, but we cannot be inauthentic!” (Shari Rosenfeld, interview by Daniela Petrova, March 31, 2015). As a result, the team had to adapt its programming, and it eventually created a parallel version for each broadcast. The team produced local live action films and animation content, which were then shared across the different series.

Although Sesame Workshop started with a television program, it has since become an interactive multimedia platform that uses technology ranging from high-technology devices (i.e., tablets and smartphones) to relatively low-technology ones (i.e., print materials, DVDs, community and commercial radio, and bioscopes—a hand-powered slideshow viewer, and feature phones). As the workshop looks forward to the next 40 years, one of its greatest challenges will be keeping children’s attention in a crowded media market (Jorge Baxter, interview by Daniela Petrova, March 19, 2015). In order to stay relevant, the workshop’s leaders recognize that it must continue to adapt to a changing media landscape by diversifying its products and delivery methods. With the emergence of new digital platforms, such as YouTube and Netflix, the workshop has experimented with other ways to deliver its educational content, including online, mobile devices, and touchscreens in multiple languages (Cole 2009). This has not only enabled the workshop to widen the number of devices used, but also to explore the potential of each medium to enhance learning. In some cases, efforts have even been made to take a transmedia approach, where story arcs and narratives are spread across communication channels (television, the Internet, digital and print media, etc.), so the target audience can have multiple touchpoints and multiple brand experiences (Baxter 2016). In Colombia, for instance, the workshop— together with the Ministry of Technology, Communication, and Information and Canal Tr3ce—created “Plaza Sésamo: Monsters on the Web” to promote digital literacy and the safe use of new technologies such as the Internet, mobile phones, and social media among young children and their families (Jorge Baxter, interview by Daniela Petrova, March 19, 2015; Cole and Lee 2016). Perhaps this model will become Sesame Workshop’s new terrain, as the population of digital natives continues to explode around the globe.

Sesame Workshop’s global social impact work has continued to respond to the changing media environment and the goals of the international development community. Its most recent focus—access to quality early education, critical health lessons, and providing tools for vulnerable children—reflects important areas where it has the greatest potential to make a meaningful difference in the lives of children and families. Its initiatives have grown well beyond television and mass media, to encompass programs implemented by local partners in schools and communities. The breadth and depth of Sesame’s work have endured for over four decades, reaching many millions of children where they are with engaging and meaningful content.
Lessons learned

- Sesame Workshop scaled a simple idea: Use television to help children learn, especially those with little or no access to early childhood education. During a time when social inequalities were being tagged to inequalities in education, and inequalities in education were being tagged to gaps in school readiness, Sesame Street’s mission to prepare preschool-aged children for school entry became an instant hit.

- A cornerstone of Sesame Street’s successful adaptation around the world has been the local application of its core framework and production plan, or the Sesame Street model. But, by striking a balance between maintaining the model’s core nonnegotiables and remaining flexible and adaptable, Sesame Workshop has been able to preserve and retain ownership over its brand while enabling a specific country’s coproduction teams to tailor the content, pedagogy, and messages to the unique educational needs and goals of its children.

- Sesame Workshop benefited tremendously by being in the right place at the right time. Its timing could not have been more perfect, both in terms of its early entry into the landscape of children’s programming, which gave it a competitive edge, and the explosion of cable television in the lives of consumers, which gave it tremendous reach.

- Research has played a prominent role, from Sesame Workshop’s inception throughout the production process and beyond. Not only does the workshop use formative research to guide and inform the production process, it also uses summative research to generate rigorous evidence and data that demonstrate impact and inform modifications. Unafraid to make mistakes and viewing failure as opportunity, the workshop continues to grow and improve its programming in ways that are responsive to the needs of children.

- The global success of Sesame Street has depended on a broad base of partners, including in-country broadcasters, local production teams, government ministries, the education and academic communities, funding agencies, local nongovernmental organizations, and other private and public partnerships. The workshop’s success depends on a large network of key stakeholders at the local level. Through relationship building and constant communication with its funders, the funders begin to see the workshop and its programs as integral parts of their organizations. At the same time, building a network of partners in a particular country allows projects to respond to local needs and contexts.

  - Sesame Workshop has been successful for more than 40 years across many different contexts (including both inside and outside the classroom, postconflict areas, urban slums, and rural communities) because of its underlying ability to change with the times and to adapt. This has meant diversifying its products and delivery methods, as well as experimenting with technology and different financing models.
References


Endnotes

1. For a review of such studies, also see Wright et al. 2001.

2. Formative research—typically conducted by Sesame Workshop’s in-house team of educational researchers—is conducted both before and during production to test the appeal of the program and comprehension of material, as well as to guide the development of new material. Summative research—typically conducted by external evaluators, academics, or market researchers, but sometimes through in-house studies or a mixture of commissioned and internal studies—is conducted, when possible, after production to assess whether the material has met its goals and to measure its impact on the targeted audience.