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| RESEARCH ARTICLE

## The Role of Enterprise Automation in Building More Inclusive, Accessible, and Ethical Digital Societies

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| ABSTRACT

This article repositions enterprise automation platforms from mere efficiency tools to essential social infrastructure mediating countless citizen-business interactions. As these systems increasingly determine who can access essential services and under what conditions, platform architects must embrace their role as ethical stewards with civic responsibilities. The article explores three critical dimensions of ethical platform design: accessibility as a foundation for universal participation, transparency and agency in automated interactions, and robust data ethics frameworks. Drawing from real-world implementation experiences, it demonstrates how intentional design choices directly influence equity, trust, and inclusion in digital environments. The article argues that truly responsible enterprise automation transcends regulatory compliance to embed human values throughout system architecture, creating platforms that respect user autonomy, accommodate diverse needs, and distribute technological benefits equitably. This reframing transforms the platform architect's role from technical specialist to social infrastructure steward accountable not just to business stakeholders but to society at large.

| KEYWORDS

Digital inclusion, Enterprise ethics, Automated decision-making, Data governance, Human-centered design.

| ARTICLE INFORMATION

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### 1. Introduction: Enterprise Automation as Social Infrastructure

Business technology has changed dramatically over the past decade. What started as simple efficiency tools has transformed into something far more significant. Enterprise automation platforms, notably customer management systems, are now also essential social linkages for organizations with a reliance on them. This is not just an ambit of technical enhancement: it also represents a genuine reconfiguration of how businesses treat, interact, and position themselves with society, blurring the division and definitions between corporate behavior and social responsibility.

For decades, executives would assess automation with the sole propellant response of costs: how much money has it saved? How efficiently did it process transactions? Did it provide good ROI? But these narrow measurements miss something crucial about modern systems that have become primary access points for essential services. Digital technology's horizon has recently boiled over, and it is making advancements to not only business practices but society itself, too. This provides both unique opportunities that can be highly seductive and pragmatic challenges, notably the creation of jobs, economic disparity, and who gets to be participants in our digital evolution. Look at any community affected by rapid technological change, and it will see a mixed picture—newfound prosperity alongside deepening divides between digital haves and have-nots.

The people who build these systems need a new professional identity. Enterprise architects and developers aren't just technical specialists—they're ethical guardians with responsibilities that extend far beyond corporate boundaries. When a financial institution rolls out an automated customer service platform, that system directly determines who can access financial resources and under what terms. Hospital patient management software shapes who receives timely care and who faces barriers. The

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technical decisions made during development directly impact which community voices get heard, which needs receive attention, and ultimately, who can meaningfully participate in our increasingly digital world.

It can see this playing out across industries—from banking to healthcare to government services. These aren't simple business transactions anymore. They represent real people seeking medical care, financial stability, and essential government services. They are vulnerable individuals seeking help, and entire communities are made to negotiate institutions on which they depend to integrate into everyday life. Technologies of today could change human welfare markedly; however, those same potent technologies could also expand the gaps that already exist if benefits primarily operate from front-runners. It will not get it right unless and until the platforms necessary to balance the capabilities of technology with human imperatives and values are enabled.

Thinking about enterprise automation as social infrastructure opens up better approaches that balance efficiency with fairness, transparency, and accessibility. Most people now recognize that technologies aren't neutral tools but complex systems packed with specific values and assumptions. The incredible capabilities of modern digital systems must be distributed thoughtfully through design choices that consider community impacts alongside business metrics. As automation advances and its use becomes pervasive, the human values embedded in these systems will increasingly be determinative in determining who will financially benefit from digital transformation and who will be left behind even further.

## **2. Accessibility as Foundation: Designing for Universal Participation**

Today, because of business software that is now open to users in every country equals accessibility, not only a legal requirement but as a requirement of design. To truly be accessible means more than following technical specifications; it also means incorporating a broader notion of accessibility that spans the barriers of language, disability, Geography, and culture. Inclusion is designing for difference in human experience, and differences are in abilities, languages, culture, gender, age, etc. If developers develop systems with people with permanent disabilities in mind, ultimately, everybody else is included in the design development because the system becomes more transparent, predictable, and functional. Focusing on extreme cases during early design produces better systems for all users in more situations. This flips traditional development upside down, which typically designs for some imaginary "average" person and then awkwardly bolts on accommodations later.

At this point in time, language continues to be one of the biggest barriers to being a global platform. Too many companies think of translation as an afterthought, AND provide a technically functioning, culturally tone-deaf experience. Language inclusion should not only include Languages. It must consider cultural adaptations, local phrases and expressions, and regional variations of languages. Good platforms move beyond dictionary translations to incorporate workflows that make sense locally, images that resonate culturally, and data practices appropriate to each region. This approach aligns with core inclusive design thinking—creating with diverse users rather than for them by involving people from different languages and cultural backgrounds throughout development instead of just asking for feedback at the end.

Addressing disabilities presents equally tricky challenges affecting many worldwide users. Business platforms must address accessibility at every user touchpoint, handling visual, hearing, motor, and cognitive needs. But truly accessible design goes beyond compliance checklists to embed inclusive thinking throughout development. This could also mean providing suitable structural foundations, utilizing keyboard navigation, providing image text, and having that text function appropriately with programming for screen reader accessibility if image "text" is being used, and maintaining appropriate color contrast for readability. Contemporary accessibility thinking invites us to rethink disability, not as a personal or medical problem but as a misalignment of user requirements and domain-based design. This shift makes interface design failures, not user problems. This perspective helps developers see how temporary limitations—bright sunlight making screens unreadable or noisy environments making audio inaudible—create momentary disability experiences that show why accessible design benefits everyone.

Geographic equity requires attention to practical digital access conditions across regions. Business platforms are increasingly managing access to important services even as the availability of the internet varies greatly around the world, and problems of bandwidth, devices & connectivity have huge implications for billions of people. Research in developing areas reveals that access challenges are about more than just technology: they are also about price, digital literacy, and the relevance of culturally appropriate content. Access means having the right speed, the right device, the right data limit, and time to use it. Mobile-first, low-bandwidth design provides an effective way to tackle existing inequalities in locales where mobile access will always surpass fixed broadband access. There are a number of technical strategies, including progressive enhancement, offline availability, and data-efficient user interfaces, that provide technical participation in many technical environments while also recognizing limited data plans and unreliable connections.

Cultural adaptability forms another essential accessibility dimension. Business platforms designed primarily from Western technological perspectives often embed assumptions about workflows, information organization, and visual communication that fail across different cultures. Field experience demonstrates how cultural factors profoundly influence technology adoption patterns across regions. Many distinct cultural contexts require unique design considerations—community-focused rather than individual-focused interfaces, systems optimized for collectivist rather than individualist societies, and platforms respecting indigenous knowledge systems and decision practices. Effective business platforms must include adaptable interfaces honoring these differences while maintaining consistent functionality. This cultural alignment becomes especially crucial for services addressing fundamental needs like healthcare, financial access, and education.

Universal Design principles provide a useful framework for integrating these diverse accessibility requirements into a coherent platform architecture. Applied to business automation, these principles transform accessibility from a compliance exercise into a foundational design philosophy benefiting all users. The inclusive perspective emphasizes that designing for diversity creates superior systems for everyone—accommodations for specific groups frequently become advantages for all users. It recognizes access as part of the quality of access, not an additional quality consideration. Solid business case evidence for inclusive design—more markets, better customers, and a better reputation—also brings added motivation for platform architects to use accessibility as one of their foundational design principles rather than a regulatory requirement.

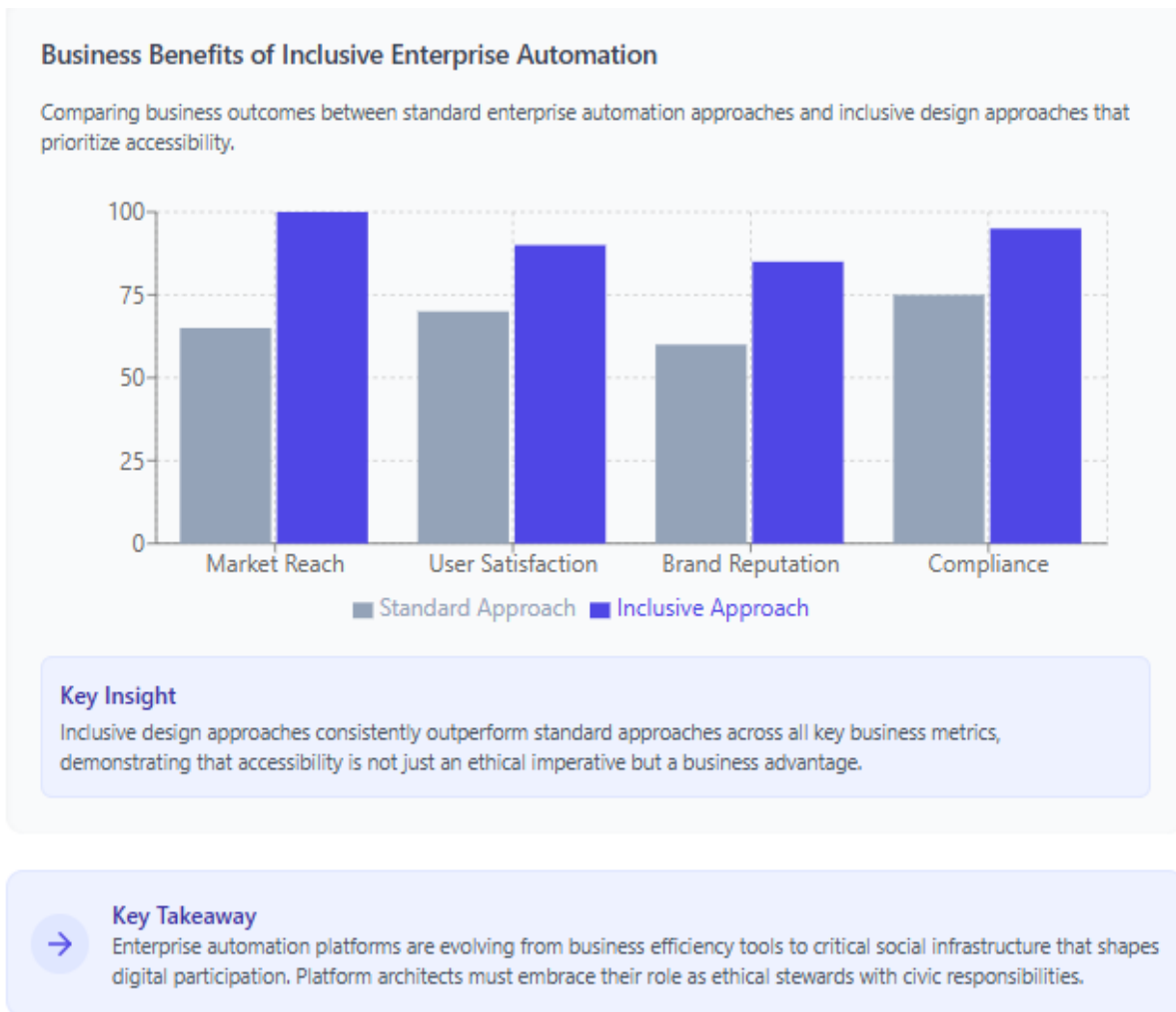


Fig. 1: From Efficiency to Inclusion: The Evolving Social Impact of Enterprise Automation. [3, 4]

### 3. Transparency and Agency in Automated Interactions

When businesses automate customer interactions using AI, they face some serious ethical questions about transparency and user control. It's not just about the tech - it's about basic human dignity, freedom, and whether people can trust these

computerized systems. Human welfare must be considered from the very beginning of the design process in order to create AI that upholds these ideals.

It has been seen how developers who take ethics seriously approach this differently—they prioritize openness and responsibility, and they actually talk to the people who'll be affected by their systems. Public trust only happens when automated systems behave in ways people expect and find acceptable. Some experts have spoken with point out that making AI verifiably safe means moving away from those mysterious "black box" systems toward designs with built-in ethical guardrails. For a business platform handling important stuff like healthcare or financial services, this boils down to creating tech that's not just efficient but also makes sense to regular users who need to control it.

Look at AI communication tools—probably the most visible form of business automation today. Those virtual assistants and chatbots handle thousands of customer conversations every day across pretty much every industry. When companies implement these tools, they face real ethical dilemmas around honesty and consent. The guidelines are pretty clear on this one: businesses need to be upfront when AI generates or manipulates content that appears real. This becomes super important when users might reasonably think they're talking to a human instead of a machine.

The best companies use obvious indicators showing when content comes from AI, especially in situations where confusion might cause problems. Yeah, those seamless AI experiences feel convenient, but the evidence it has gathered suggests being honest about AI involvement doesn't actually hurt user satisfaction if it's done thoughtfully. In fact, being transparent often builds more trust overall. Smart business platforms design interaction patterns that honestly show when automation is involved while keeping conversations feeling natural.

Giving users clear ways to opt out shows real respect for their autonomy. My experience with synthetic media projects taught me that meaningful consent means offering genuine alternatives to automated interactions. It's not enough to just inform people about automation—it needs to provide actual, functional paths to human assistance when needed.

Visibility (can users find the options easily?), accessibility (do the alternatives work for everyone?), persistence (does the system remember opt-out choices?), and equivalence (is the human alternative similar in quality?) are all elements taken into account by the best opt-out systems. This approach recognizes that while many folks appreciate automation's convenience, others have perfectly valid reasons for preferring human interaction—accessibility needs, complicated situations, or just personal comfort.

Some industry frameworks have been reviewed and emphasize that preserving user choice isn't an obstacle to innovation but actually builds more trustworthy systems. When business platforms offer clear alternatives to automated interactions, they show respect for diverse user needs and build stronger relationships.

Explainable AI is another critical piece of transparency. It has been seen for three years how problematic secretive algorithmic decision-making can be for accountability. Most of the folks who are affected by AI decision-making have no clue how the systems work, what data they utilize, or how they arrive at their conclusion. This becomes problematic when the AI decision-making connects to important things, like credit or job interviews, or the ability to gain access to basic services. A friend of mine who works in a city agency shares that their agency has been struggling to explain their AI systems and their effect on individuals. These accountability gaps undermine trust and might even violate basic rights. The challenge isn't just technical—it's social and legal too, raising questions about what constitutes a meaningful explanation for different audiences. Effective explanation requires business platforms to provide appropriate transparency for both technical and non-technical users.

Want a practical example? Look at AI scheduling systems used by service industries. These systems analyze customer behavior patterns, provider availability, historical data, and current conditions to optimize appointments. The better implementation guides stress providing context about how such systems work, what factors they consider, and what limitations they have.

Smart implementations include intuitive visualizations showing decision factors, confidence indicators signaling when the system works with limited information, and clear paths for human oversight. The industry guidelines really emphasize human control, or that people can overrule, change, or question automated suggestions. This perspective takes into account that AI performs well in recognizing patterns but is limited in contextualizing and judging action compared to a human being.

It thinks the struggle between the efficiency of automaticity and the human control of automated decisions is probably the core ethical struggle for platform designers. Industry experience shows that successful AI implementation requires finding the right balance between efficiency and human oversight across different contexts. It's just common sense that situations with higher stakes require more openness and human interaction.

Automated systems should enhance human capabilities rather than simply maximize efficiency. This shifts how it thinks about business automation - from technology that replaces human judgment to technology that enhances it. For business platforms, this involves establishing levels of thoughtful automation that vary based on the importance of the task, user preferences, and the context. Using a spectrum to think about automation, rather than an either-or proposition, allows us to accomplish levels of efficiency that include human involvement in meaningful ways.

By emphasizing transparency and user control in automated interactions, platform designers act in an ethical manner. They create systems that not only maximize technical efficiency, but also maximize systems that share human values and build trust. While there are different terms for transparency, choice, explainability, and meaningful human control, by weaving these principles together, designers of business platforms and business automation can turn forms of technology that can strip away humanity into technologies that, in fact, empower organizational and individual human beings. Ultimately, the end goal of business automation technologies is not just operational efficiencies but also maximizing systems that share human values and build trust. While there are different terms for transparency, choice, explainability, and meaningful human control, by weaving these principles together, designers of business platforms and business automation can turn forms of technology that can strip away humanity into technologies that, in fact, empower organizational and individual human beings. Ultimately, the end goal of business automation technologies is not just operational efficiencies but to create equitable, accessible, and human-oriented digital environments.

Principle	Implementation Approach	Ethical Impact
<b>AI-Assisted Communication</b>	Clear disclosure of AI involvement Honest representation of capabilities	Builds trust through honesty Prevents deceptive experiences
<b>Opt-Out Mechanisms</b>	Visible, accessible alternatives Persistent preference tracking	Respects user autonomy Accommodates diverse needs
<b>Explainable AI</b>	Accessible explanations of decisions Visualization of decision factors	Enables informed consent Facilitates meaningful oversight
<b>Human Override</b>	Clearly marked intervention points Accessible manual control options	Augments rather than replaces human judgment
<b>Graduated Automation</b>	Context-sensitive automation levels User-adjustable AI involvement	Balances efficiency with meaningful human control

Fig. 2: Principles of Transparency and Agency in Enterprise Automation. [5, 6]

**4. Data Ethics in Enterprise Systems**

Business systems now handle tons of personal and company data every day. This brings up real ethical concerns about consent, storage, transparency, and bias. With these platforms making more important decisions, system designers have to create ethical frameworks that do more than just follow the rules. I’ve been to several industry conferences where folks talk about how new tech is challenging our old ways of managing privacy. Yes, legal compliance provides an important baseline, but ethical governance is dependent on a more fundamental commitment to foundational values such as respect, doing good, fairness, and trustworthiness.

For platforms operating in the business realm, this means a shift from a question of 'should it do this because it is allowed to?' to 'should it do this, and if yes, how should it?'. It drives designers to consider the ways in which they might design without the constraint of regulation and to consider the broader social implications of the products they design. Data ethics isn't something to tack on at the end—it needs to be baked into the foundation of the design.

Permission systems are where ethical data handling starts. Let's be honest—traditional consent methods often use confusing, all-or-nothing permissions that don't give users any real choices. Various industry frameworks. It has been studied to point out that meaningful consent needs more than just disclosure—people need to actually understand what they're agreeing to.

This approach recognizes different consent models—opt-in, opt-out, and tiered consent—because different situations need different approaches. For sensitive stuff or high-impact uses, explicit opt-in consent is definitely the strongest ethical choice, while less sensitive uses might reasonably use opt-out models.

One of the important principles is purpose limitation—ensuring that the data collected for a single purpose is not used, distributed, or repurposed beyond what consent is sought for. Common methods include aggregating privacy-enhancing methods for analyzing useful data while safeguarding individual data points' uniqueness and identity, and providing an interface that enables the individual to see which data points are being collected and how they are being processed, and control options relative to transparency. Consent ought not to be a single check box; rather, it is an ongoing relationship of trust and openness.

Storage time limits are crucial, too. Information shouldn't be kept forever without a good reason. The industry frameworks it has worked with stress responsible data management throughout the entire lifecycle—from collection through processing, storage, and eventually deletion. They push for "privacy by design" approaches that build data minimization into the system architecture from day one.

This means creating systems with automatic deletion capabilities that enforce retention policies without needing someone to manually intervene, reducing the risks of data hoarding (which has been seen happen way too often). For business platforms, ethical data retention policies are about documentable data categories with lifecycle things that are law-related, business-related, and ethics-related.

It will need to constantly assess data governance because data activity can't be static; at least on a regular basis, it wants to check that the data it keeps is being used for a legitimate purpose. Data retention has ethical implications that change over time as technology changes, social norms change, and the legitimate and harmful uses of certain types of data change.

Audit capabilities create accountability by generating clear records of what systems are doing. Most risk management standards it has reviewed identify auditability as a core element of responsible AI governance. This lets companies verify that systems function as intended and follow ethical principles.

This means being able to document the development, deployment, and operation of your system, especially with regard to what data was used to train the system and how that data was acquired and used; what model was designed; how the model performed; what other actions were taken by the platform and what processes were performed; how policies were implemented; and what tests it was put through. For business platforms, this means it should make audit trails that will help not only to state what decisions were made but also what considerations were taken into immediate consideration—it could even 'see' the connection between input, process, and output.

Good practice is not just in a technical logging system; it also involves organizational governance systems that reflect what a logging system can deliver and be clear about who has responsibility for synthesizing any audit information and resolving any issues identified. With all logging and governance practices, it is essential to consider which parties need what kind of audit information—technical teams should need and want performance detail, and end-users should need and want explanations for decisions that affect them directly.

Bias detection tackles an area that is something it encounters regularly, with many automated systems unintentionally reproducing or worsening existing social injustices. Bias can enter systems at many stages, via design and planning in the systems, data that is fed to train the system, and what is considered normal when implementing such systems. The industry measures clearly stress the need for both technical solutions and procedural protections, including teams of developers that are diverse in their composition, stakeholder engagement and consideration, and assessment and evaluation of impacts that result from the use of such systems.

Bias can enter systems at many points, from using training data with historical biases to subtle assumptions associated with structuring a problem, meaning there are extensive measures that need to be taken to mitigate the potential harm in most cases. For businesses deploying automated platforms, metrics good practice includes testing for fairness across demographic groups prior to implementation and ensuring ongoing monitoring for differential impacts, as well as having formal methods of intervention if bias is determined.

These approaches should look at both obvious protected characteristics and potential proxy variables that might indirectly encode sensitive attributes. Bias detection is not simply a technical process—it also requires the analysis of context within the decision domain, target populations, and potential harms. Fairness cannot be defined by a simple numeric value but assessed within the specific use case and social context.

It has seen a practical example of these principles in customer self-service platforms used across financial services. Industry design principles emphasize that self-service platforms must balance automation benefits with appropriate human oversight, particularly for consequential decisions.

Good practice includes implementing tiered automation approaches—routine, low-risk interactions may be fully automated, while more significant decisions incorporate meaningful human review. For customer-facing platforms, that means designing interfaces that provide relevant, transparent processes that show if any part of the process is automated, the factors informing decisions, and the options for appeal.

Ethics frameworks advocate for "contestability by design," meaning mechanisms for users to challenge any automated decision, correct incorrect information, and have access to a human review if they desire. Combined with the general customer interaction records, the records of automated decisions and the subsequent corrections should allow for audit trails that support individual accountability and systems improvement.

While ethics frameworks facilitate compliance, building strong data ethics frameworks is a key business imperative. Risk management standards specify that ethical implementation means holding the entire organization accountable and implementing clear governance, documentation, training, and review/audit mechanisms.

By combining technical mechanisms with organizational processes and cultural norms, data ethics frameworks involve establishing cross-functional ethics committees on business platforms that have a range of viewpoints, maintaining regular ethics review processes during product development, and creating escalation mechanisms across the stakeholders that exist in a complex, regulated real-world environment.

Promising practice includes describing ethical principles in concrete, actionable, and day-to-day language, supported by relevant examples across different organizational roles. Ethical implementation needs a mix of high-level principles overlaid with messy, specific, and practical guidance for individual organizational contexts, with appropriate organizational mechanisms that put ethics first, lending visual clarity to the interfaces that put technical and business objectives into account.

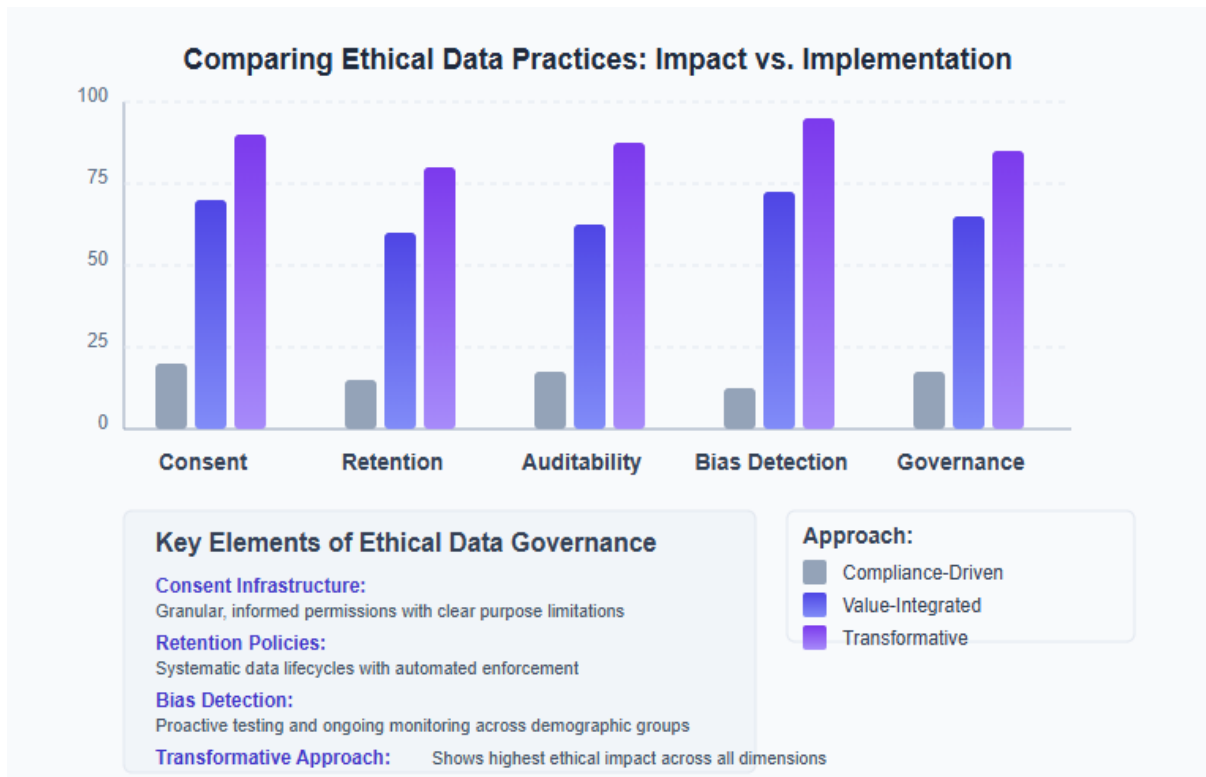


Fig. 3: Ethical Data Governance Framework for Enterprise Systems. [9, 10]

### 5. Conclusion

Enterprise automation platforms have evolved into critical civic infrastructure that shapes how individuals access essential services and participate in digital society. The design choices embedded within these systems determine which voices are heard, which needs are accommodated, and ultimately, who benefits from technological advancement. By embracing accessibility as a foundation, ensuring transparency and agency in automated interactions, and implementing robust data ethics frameworks, platform architects fulfill their responsibility as ethical stewards of this infrastructure. The transformation from efficiency-focused to ethics-centered design represents not merely a philosophical shift but a practical necessity as these systems increasingly mediate consequential decisions and interactions. Platform architects who recognize this civic dimension create systems that balance technological capabilities with human values, distributing the benefits of automation equitably while preserving meaningful human control. Enterprise automation thus emerges not just as a business tool but as a social compact—one that requires thoughtful stewardship to ensure technology serves human flourishing rather than diminishing human agency and dignity.

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