

Antitrust Statement

This meeting is conducted in accordance with the NRMCA Antitrust Policy Statement

The National Ready Mixed Concrete Association assigns the highest priority to full compliance with both the letter and the spirit of the antitrust laws. Agreements among competitors that unreasonably limit competition are unlawful under federal and state antitrust laws, and violators are subject to criminal fines and incarceration, civil fines and private treble-damage actions. Even the successful defense of antitrust litigation or an investigation can be very costly and disruptive. It is thus vital that all meetings and activities of the Association be conducted in a manner consistent with the Association’s antitrust policy.

Examples of illegal competitor agreements are those that attempt to fix or stabilize prices, to allocate territories or customers, to limit production or sales, or to limit product quality and service competition. Accordingly, it is inherently risky and potentially illegal for competitors to discuss under Association auspices, or elsewhere, the subjects of prices, pricing policies, other terms and conditions of sale, individual company costs (including planned employee compensation), the commercial suitability of individual suppliers or customers, or other factors that might adversely affect competition.

It is important to bear in mind that those in attendance at Association meetings and activities may include competitors, as well as potential competitors. Any discussion of sensitive antitrust subjects with one’s competitors should be avoided at all times before, during, and after any Association meeting or other activity. This is particularly important because a future adversary may assert that such discussions were circumstantial evidence of an illegal agreement, when viewed in light of subsequent marketplace developments, even though there was, in fact, no agreement at all.

If at any time during the course of a meeting or other activity, Association staff believes that a sensitive topic under the antitrust laws is being discussed, or is about to be discussed, they will so advise and halt further discussion for the protection of all participants. Member attendees at any meeting or activity should likewise not hesitate to voice any concerns or questions that they may have in this regard.

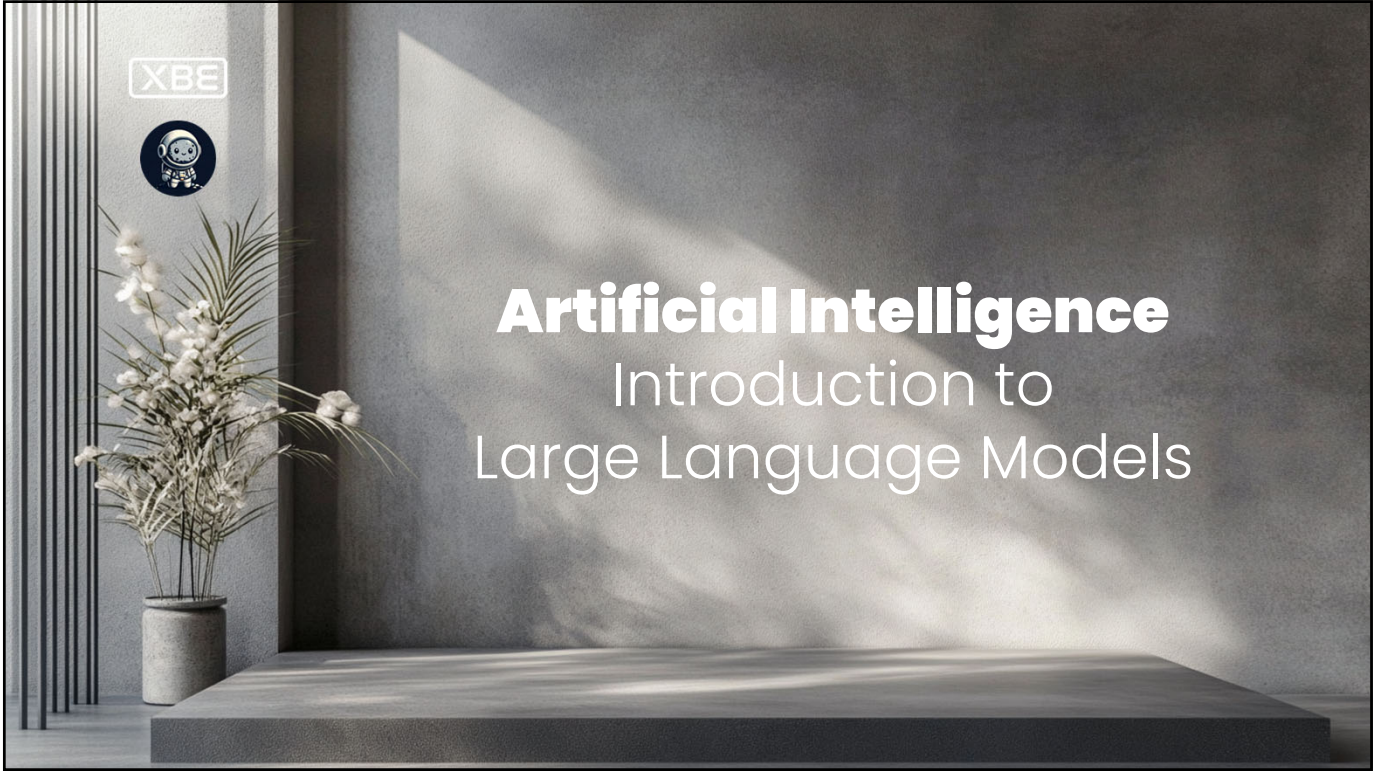




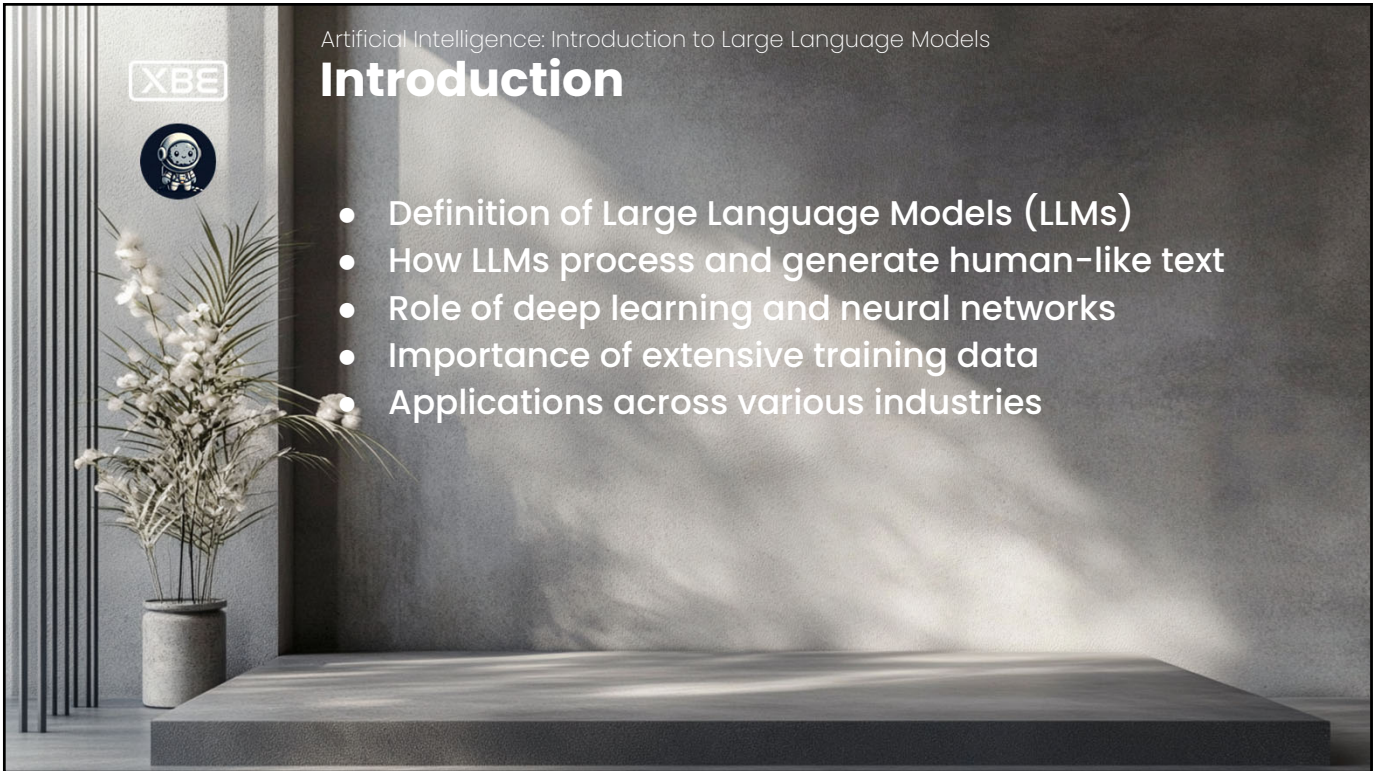
3



4





5



6

XBE






Artificial Intelligence: Introduction to Large Language Models


Model Training

- Pre-training on large text corpora
- Unsupervised learning techniques
- Fine-tuning for specific tasks
- Compute resources and hardware requirements
- Challenges: Data bias and ethical considerations

7

XBE






Artificial Intelligence: Introduction to Large Language Models


Prompting and Retrieval Augmentation

- Concept of prompting in LLMs
- Influence of prompt design on outputs
- Retrieval-Augmented Generation (RAG) overview
- Integration of external knowledge sources
- Enhancing relevance and accuracy in responses

8

XBE






Artificial Intelligence: Introduction to Large Language Models


Inference

- Definition of inference in LLMs
- Process of generating outputs from prompts
- Computational demands during inference
- Latency considerations in real-time applications
- Optimization techniques for efficient inference

9

XBE





Artificial Intelligence: Introduction to Large Language Models

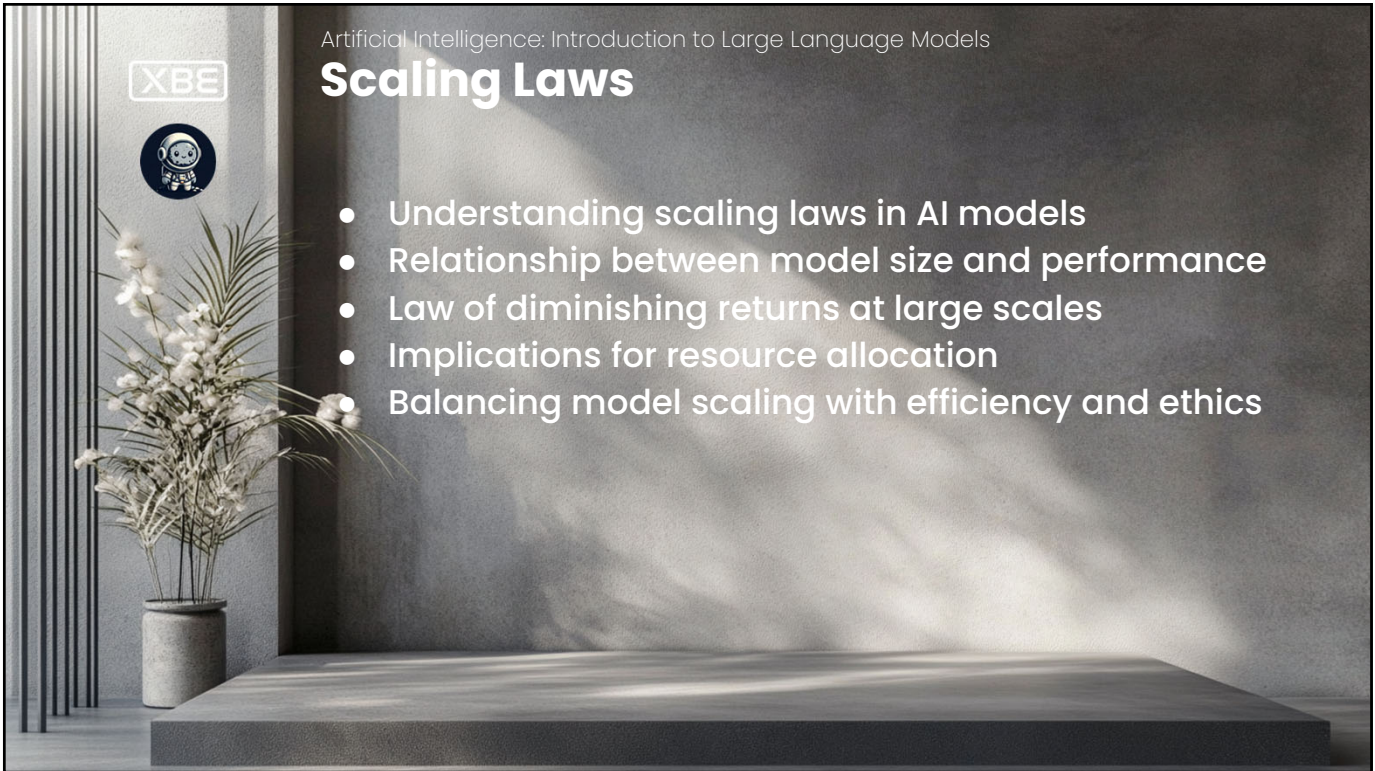
Timeline

- Early language models and NLP techniques
- Introduction of the Transformer architecture (2017)
- Development of models like BERT, GPT series
- Scaling up: From GPT-2 to GPT-4+
- Current trends and future directions

10



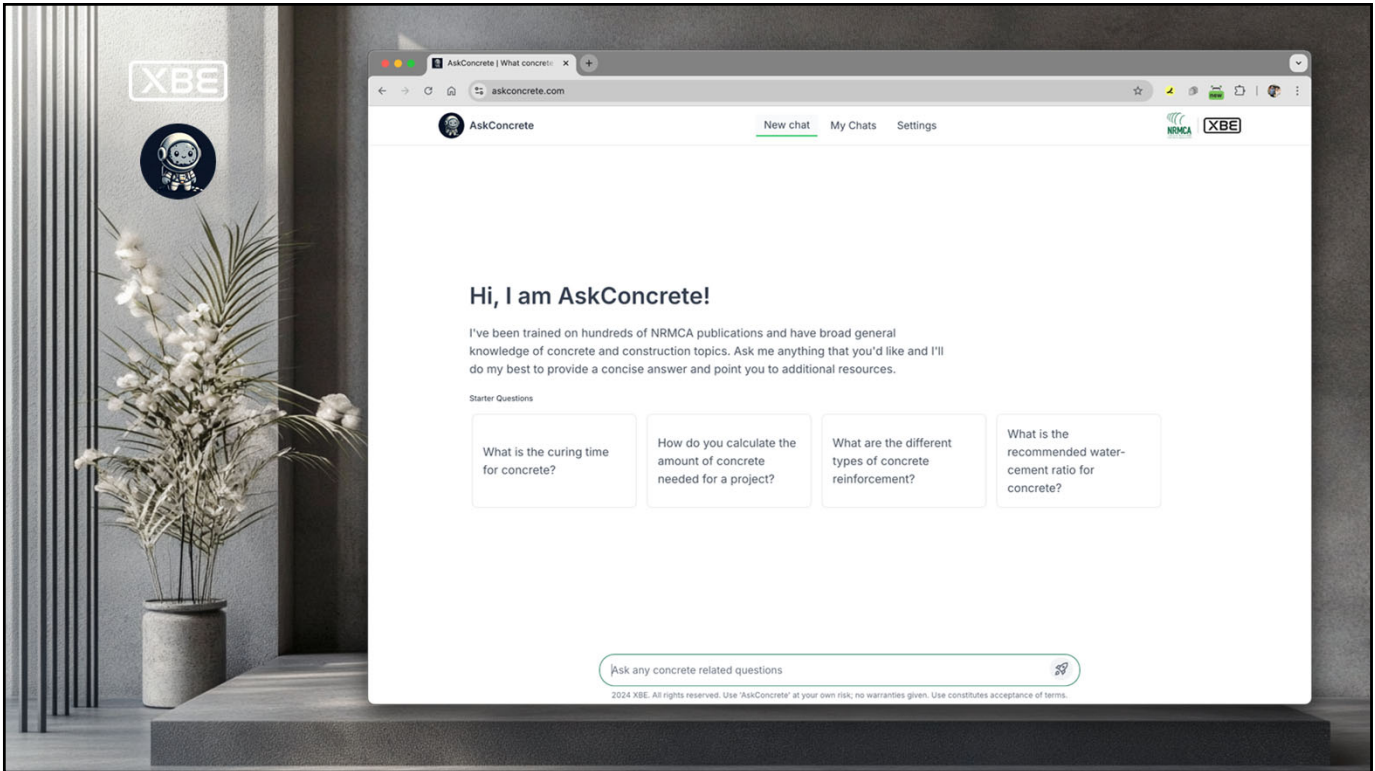
11



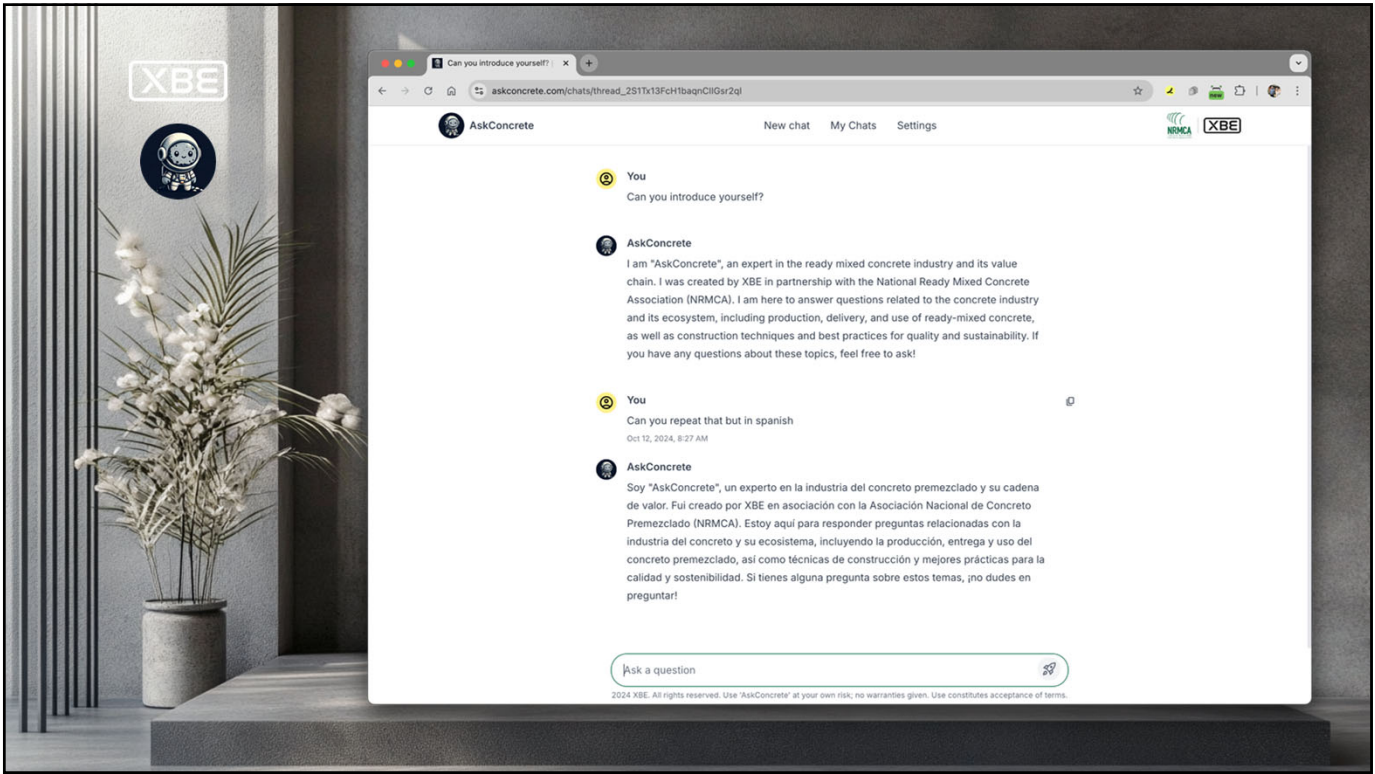
12



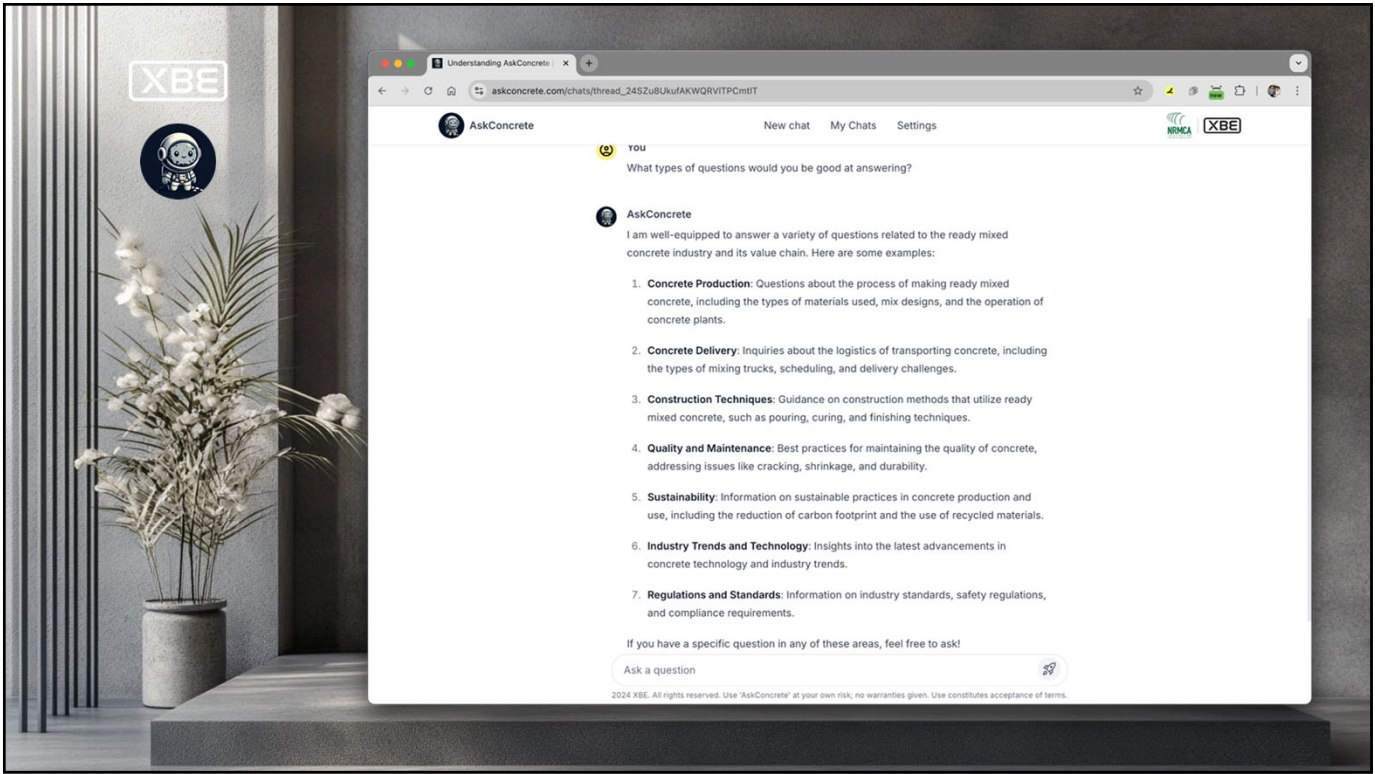
13



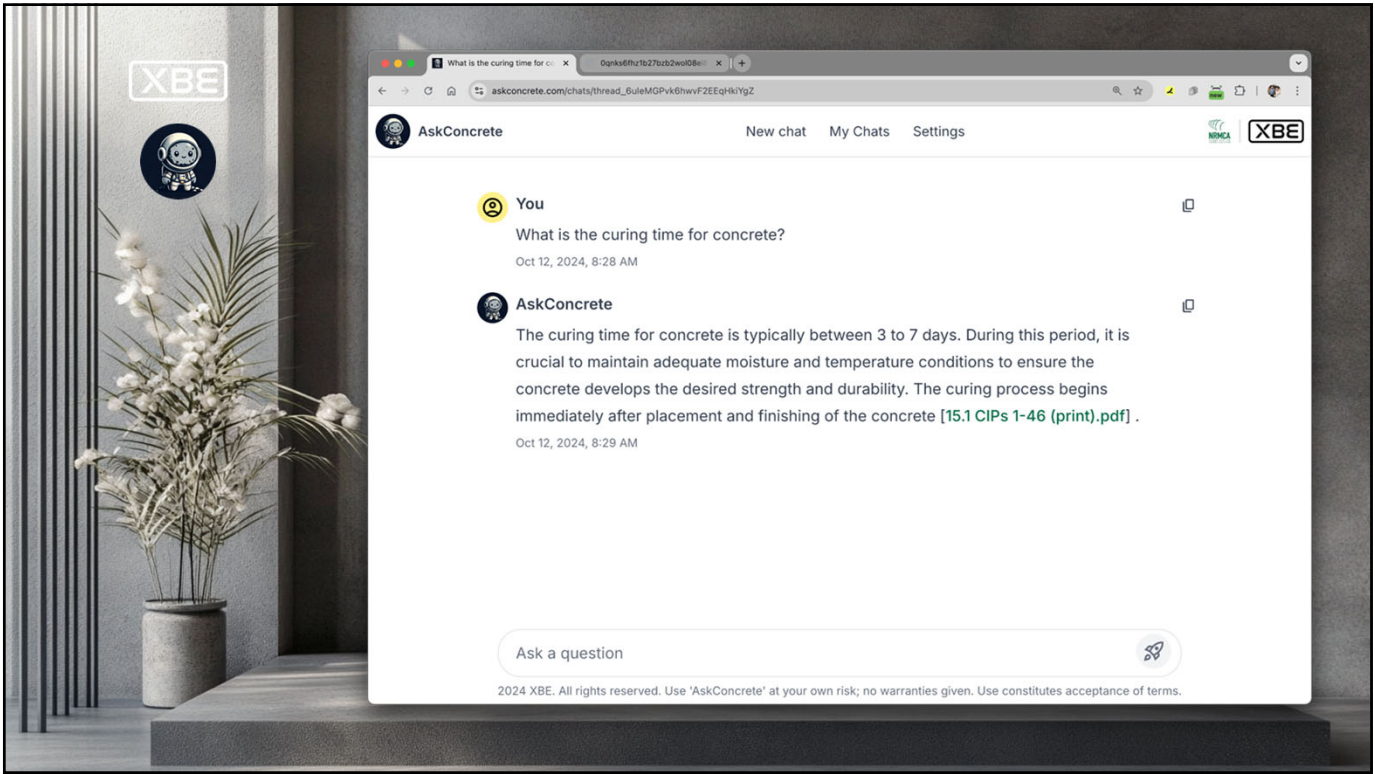
14



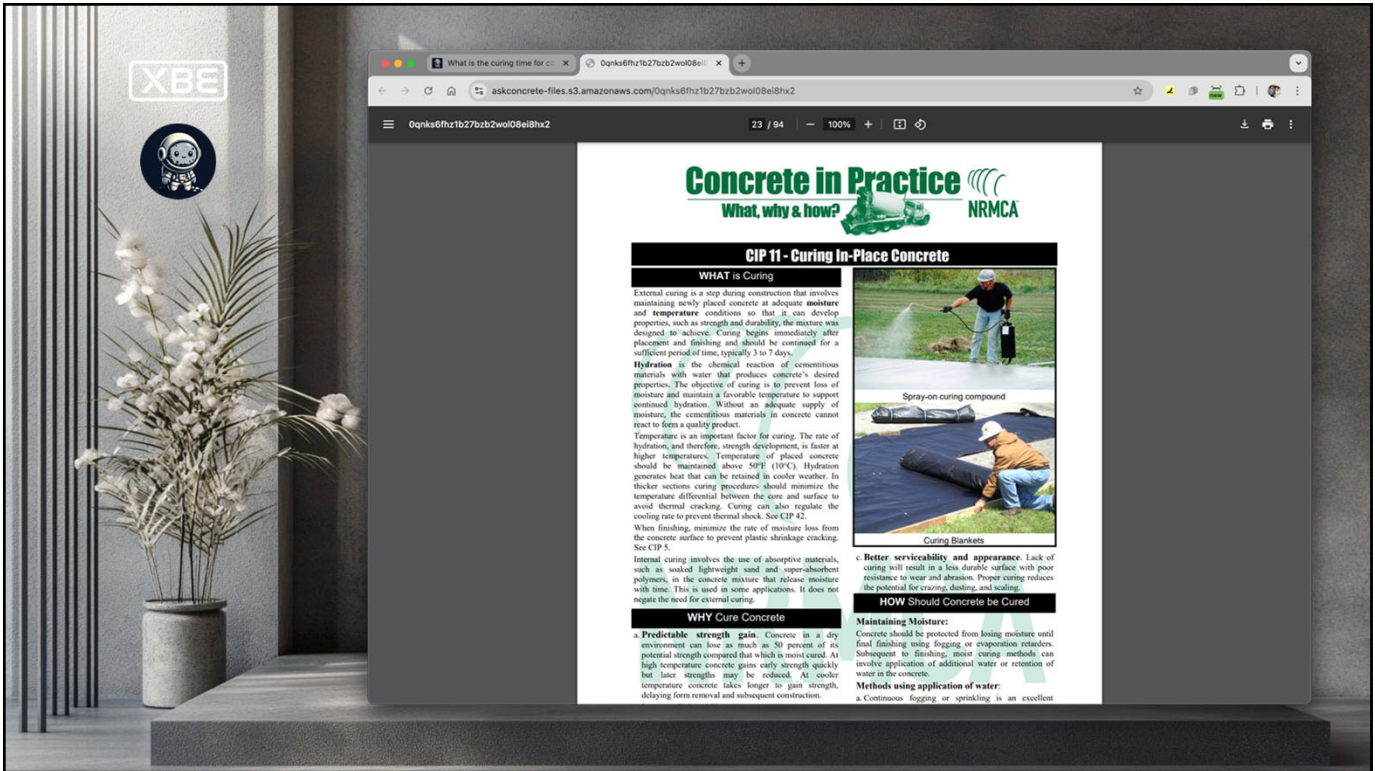
15



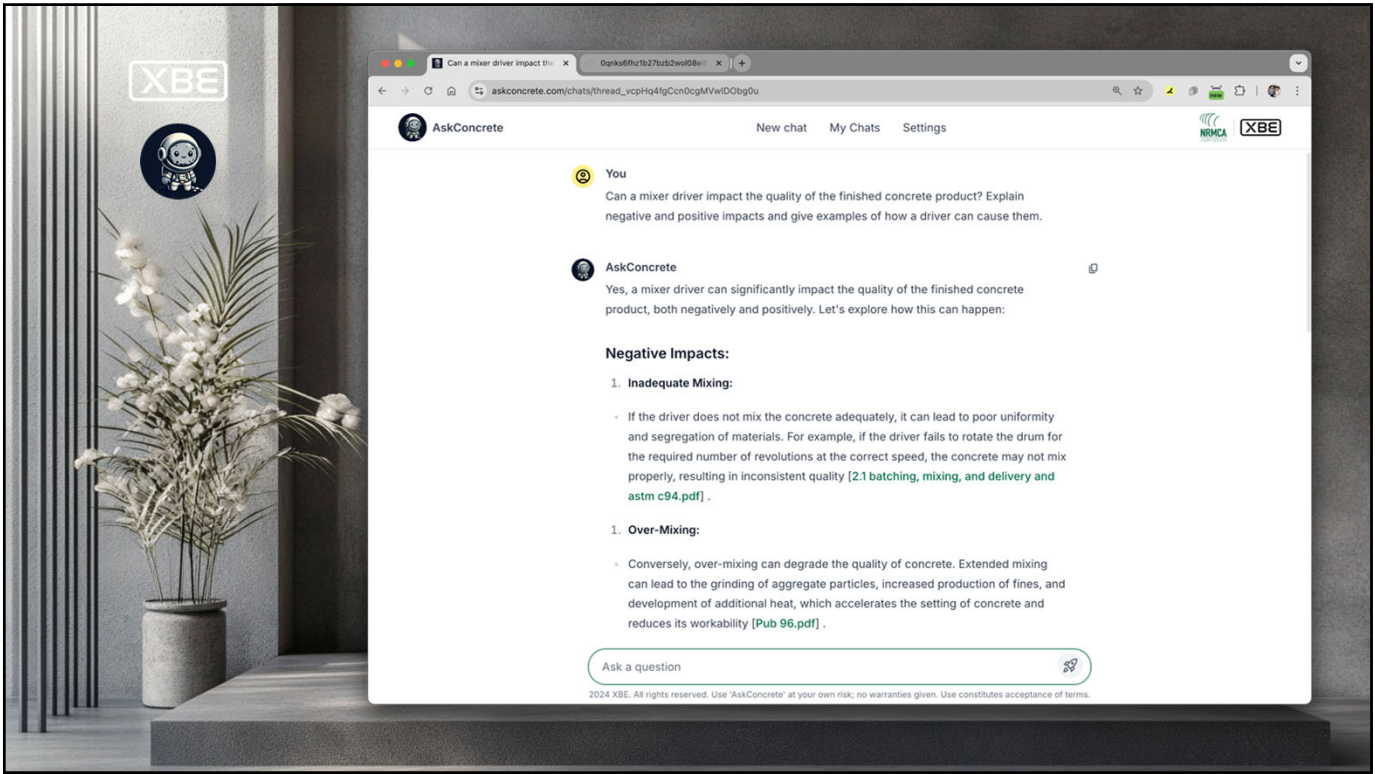
16



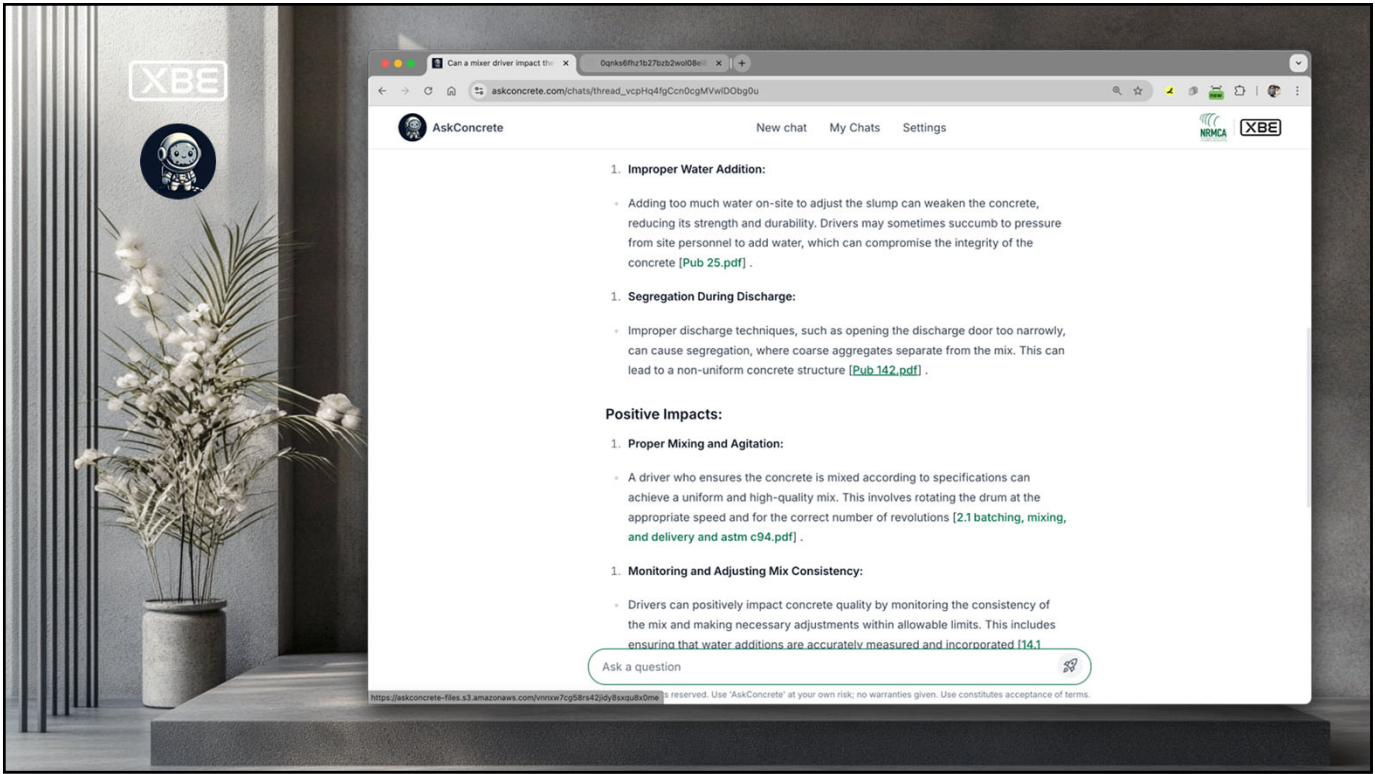
17



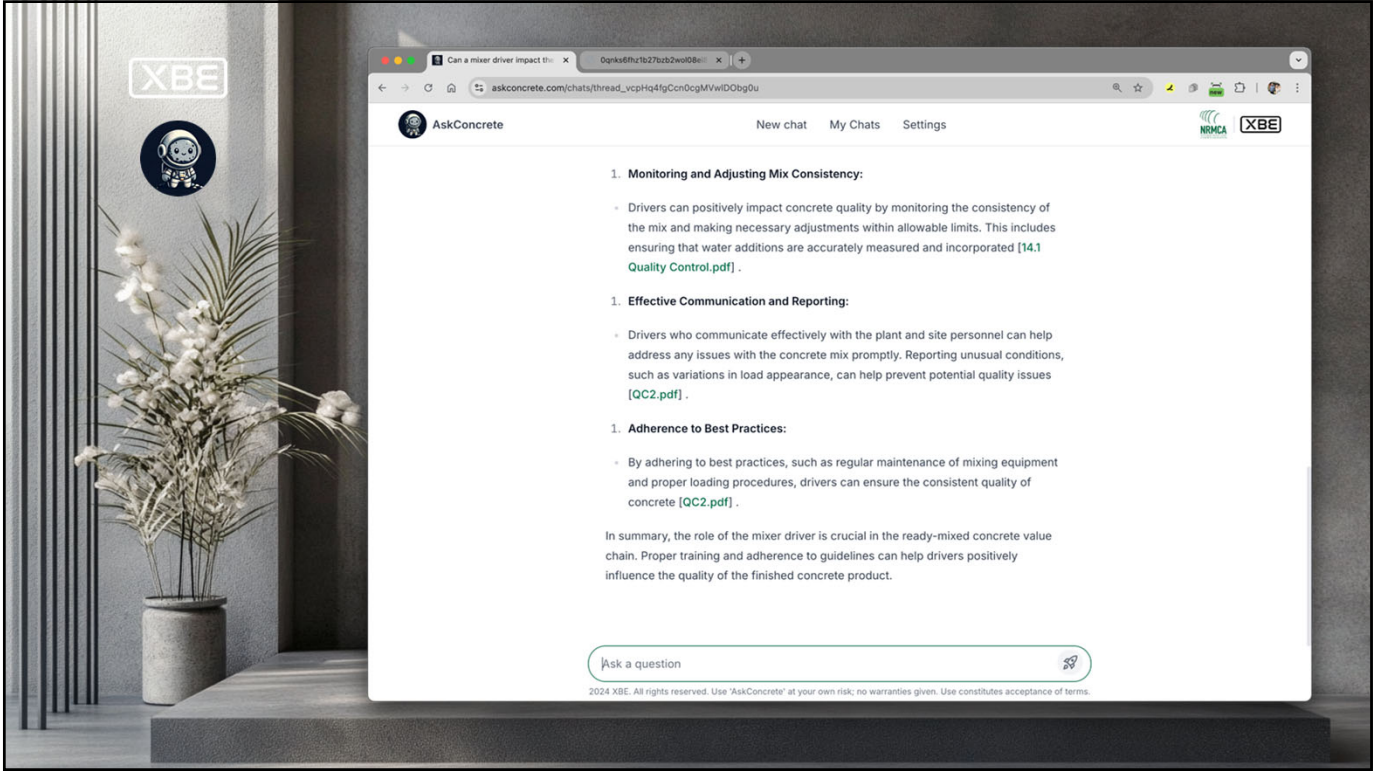
18



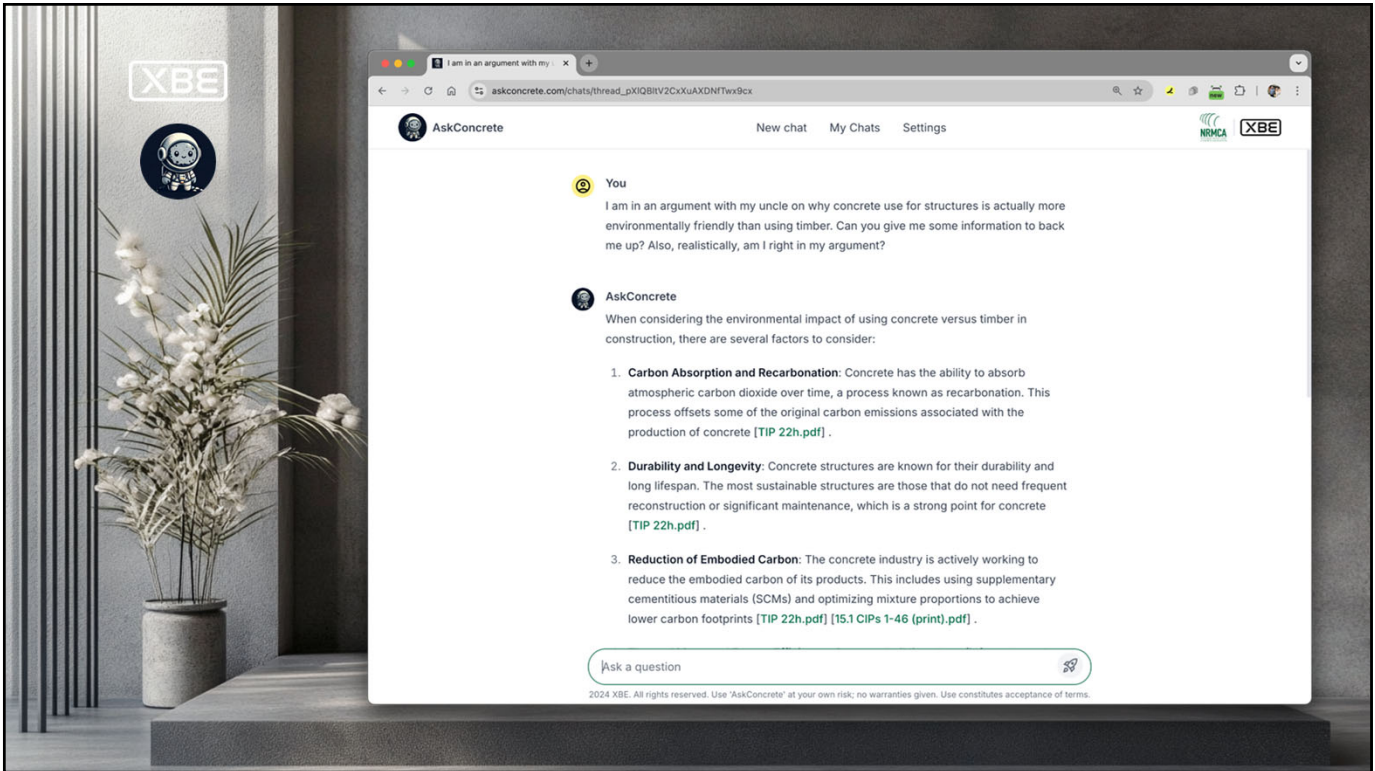
19



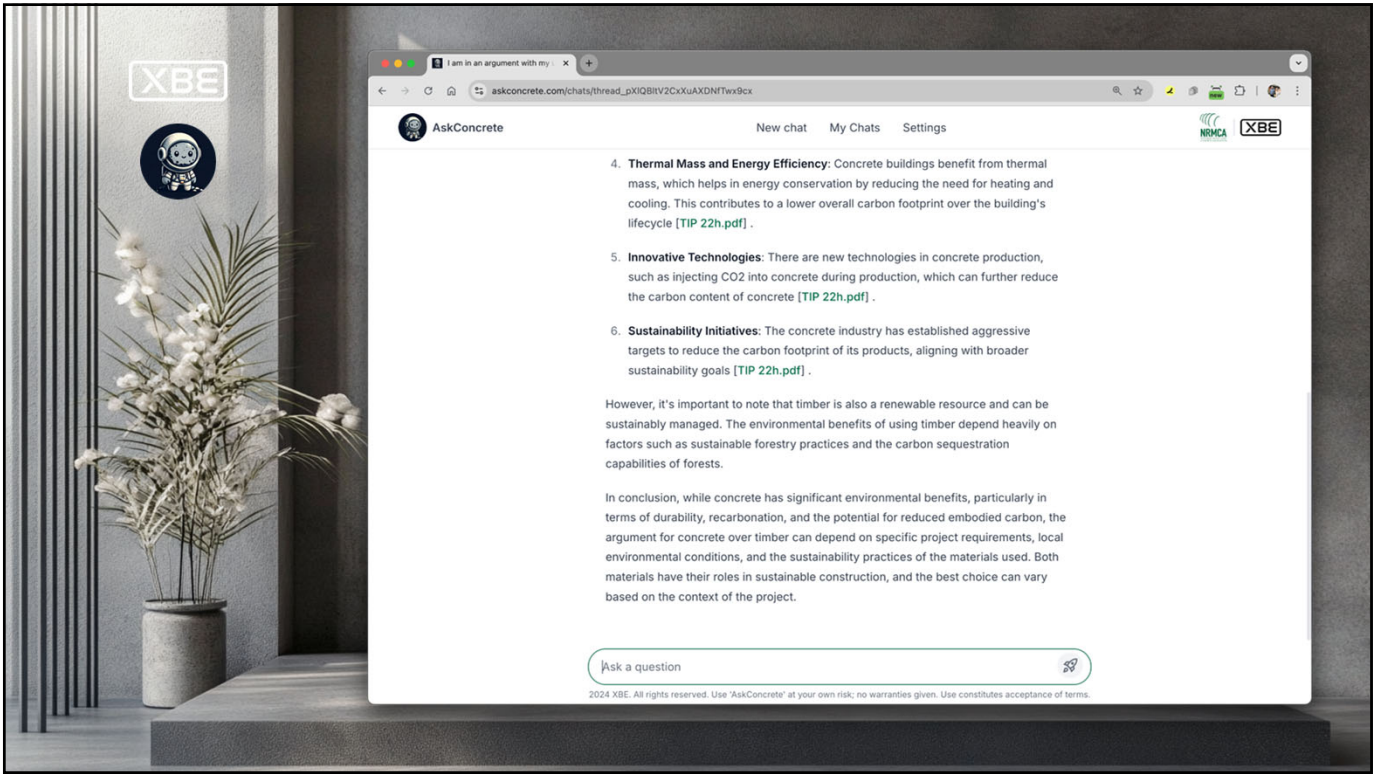
20



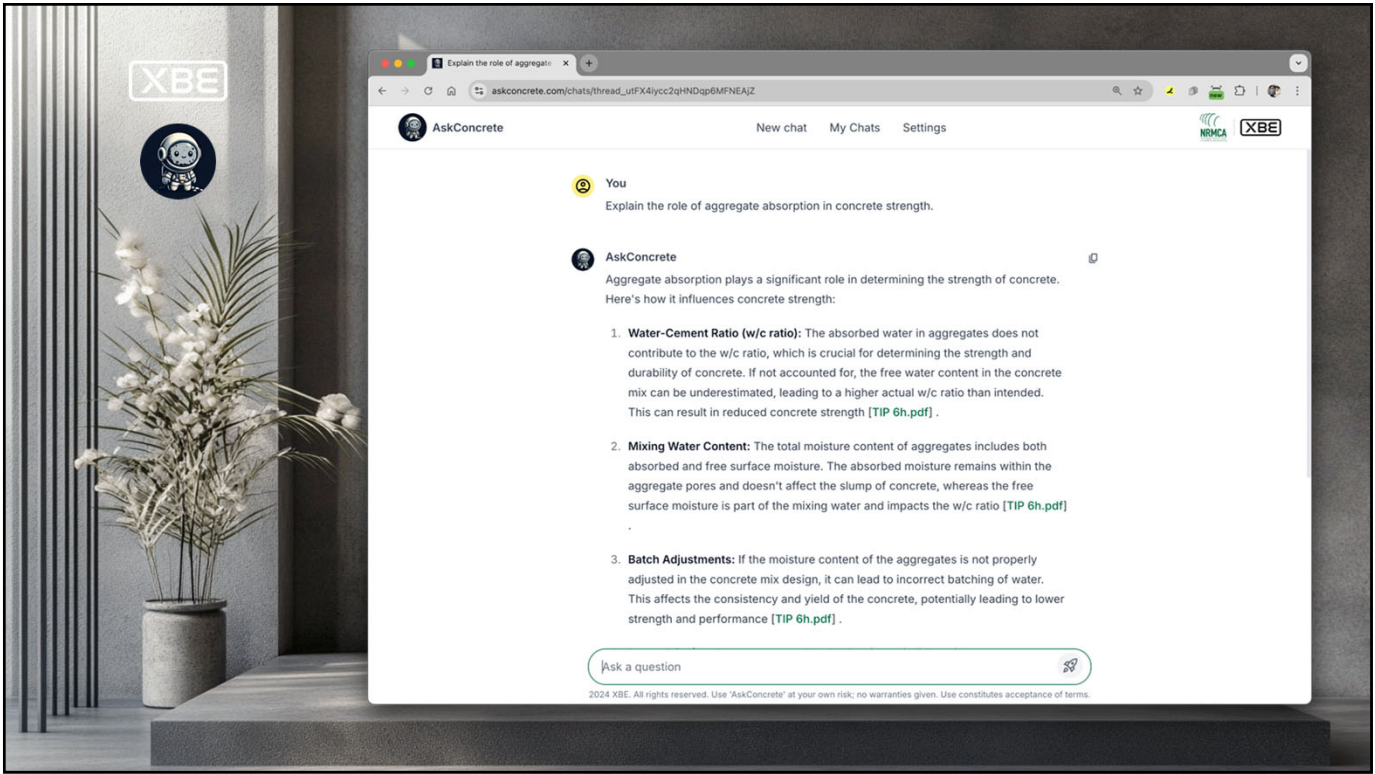
21



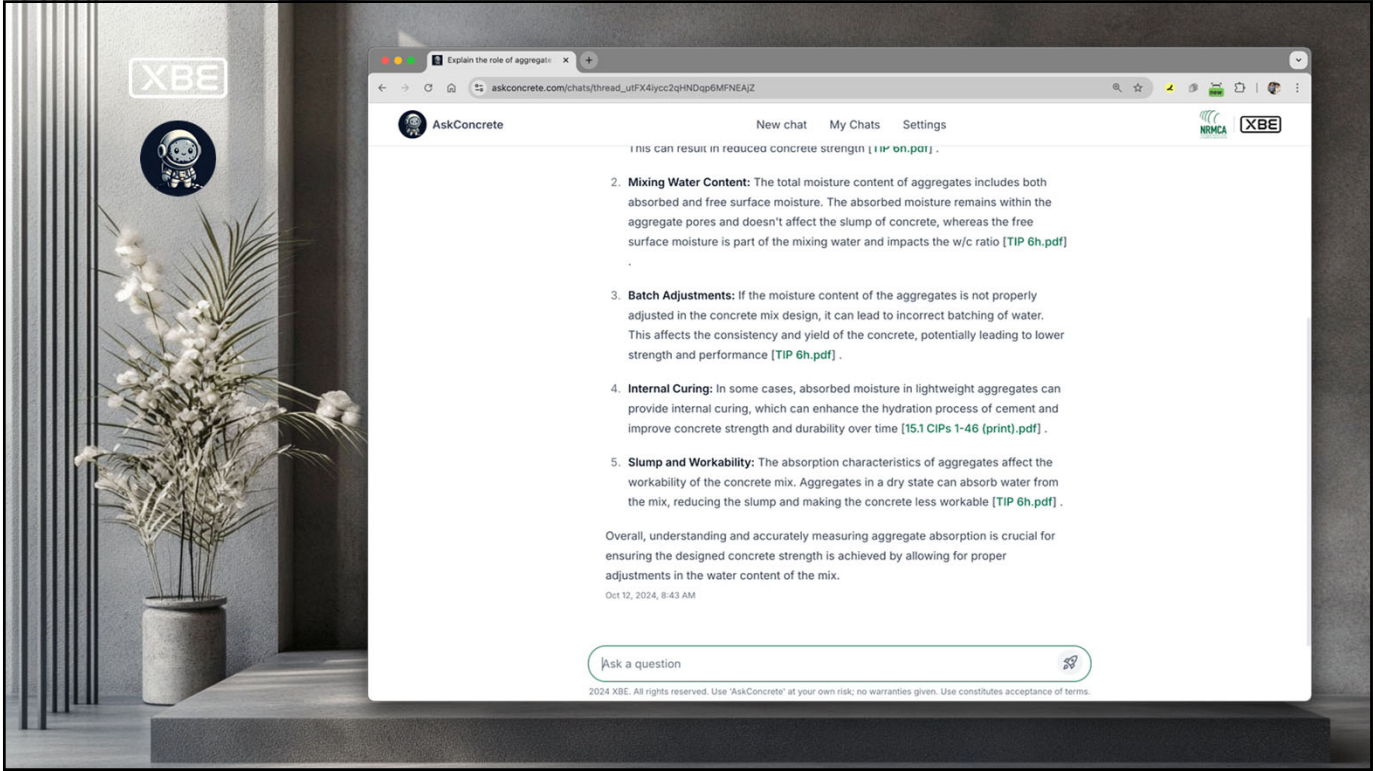
22



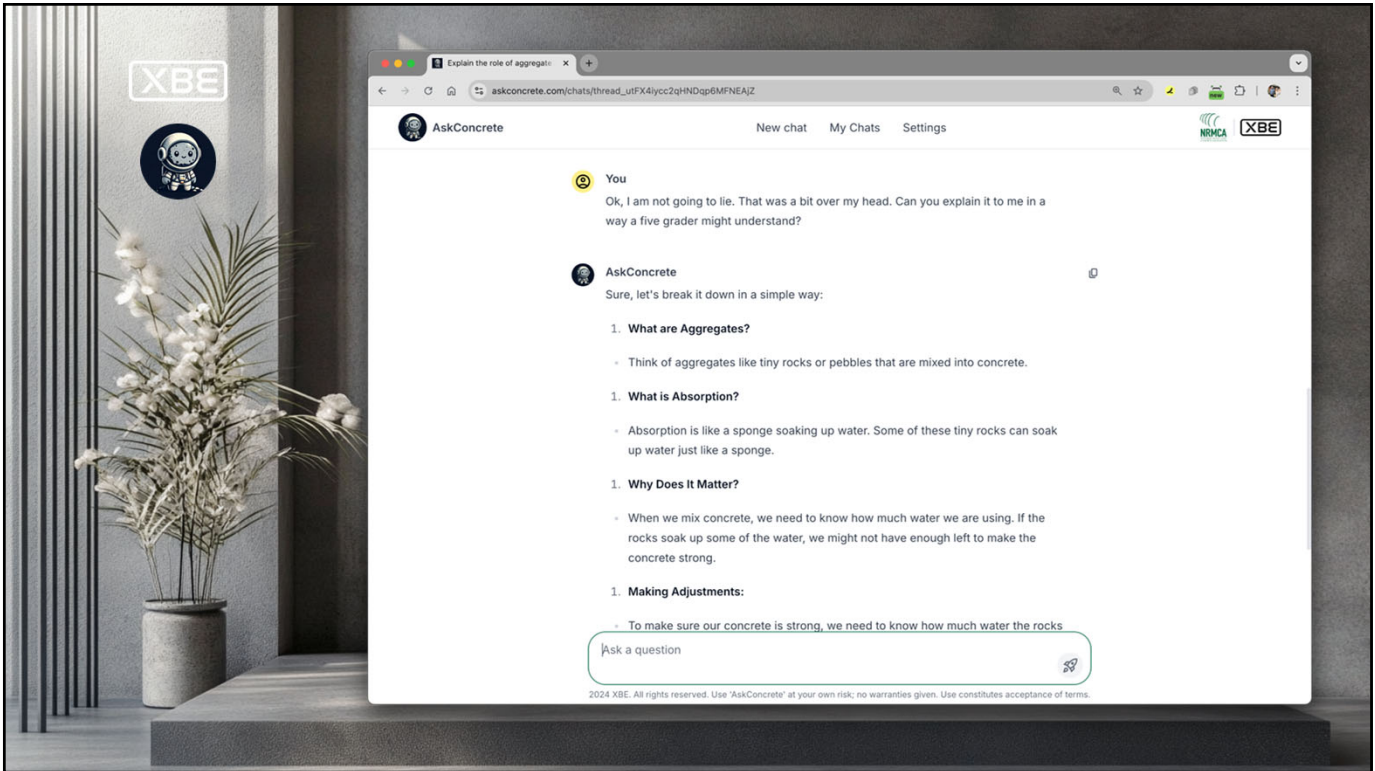
23



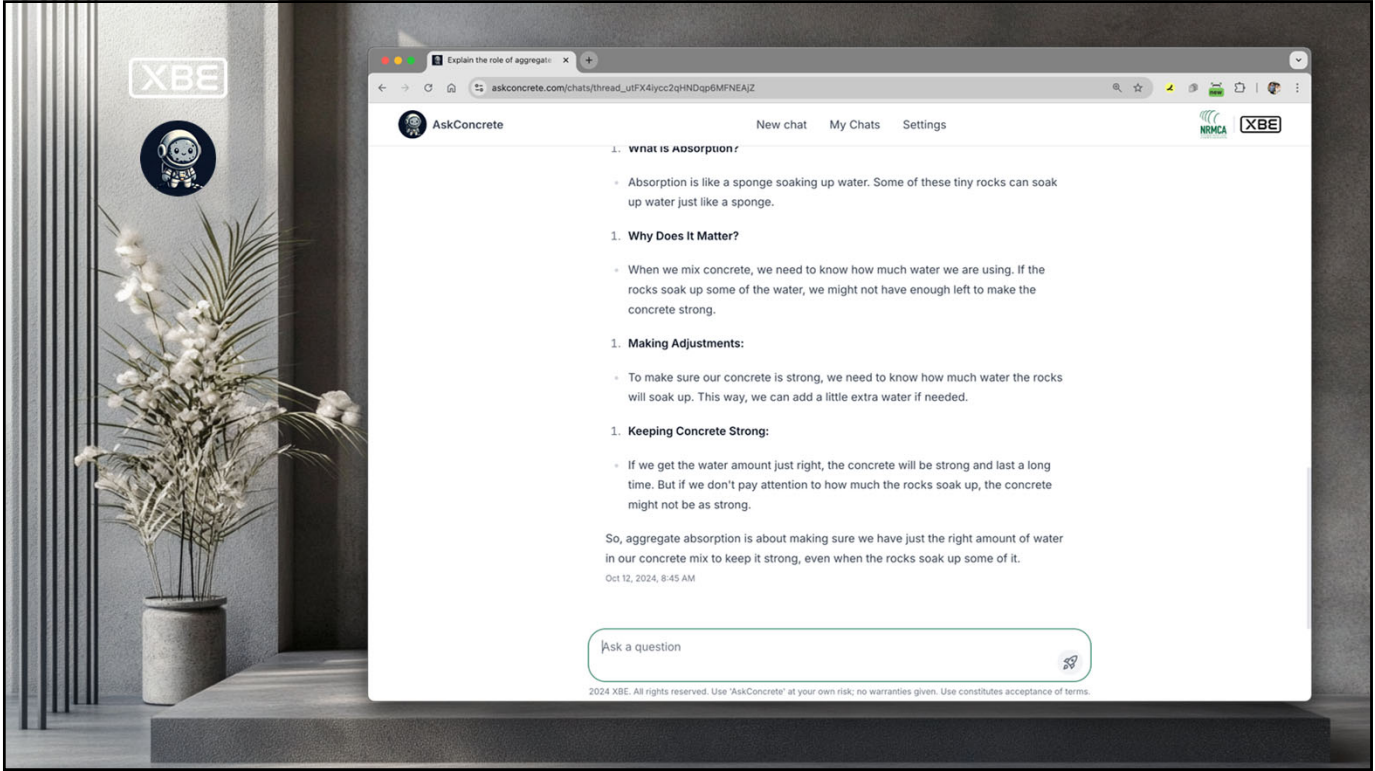
24



25



26





27



28

XBE





Artificial Intelligence: Looking Forward

Reasoning Models

- Introduction of OpenAI's o1 Model
- Chain of Thought as Default Reasoning Process
- New Paradigm: Compute During Inference
- Implications for AI Performance and Future Models
- The Allocation Economy and Specialized AI Models

29

XBE





Artificial Intelligence: Looking Forward

Agents and Autonomy

- From Reactive Systems to Autonomous Agents
- Capabilities of Modern AI Agents
- Challenges in Developing Autonomous Systems
- Ethical and Safety Considerations
- Future Impact and Potential Applications

30

XBE



Artificial Intelligence: Looking Forward

Deflation and Abundance

- Continuous Improvement and Cost Reduction
- Decision-Making in an Era of Rapid Advancement
- Strategies to Leverage Increasing Intelligence
- Short-Term Benefits for Early Adopters
- Long-Term Benefits for Fundamentally Advantaged



31

XBE

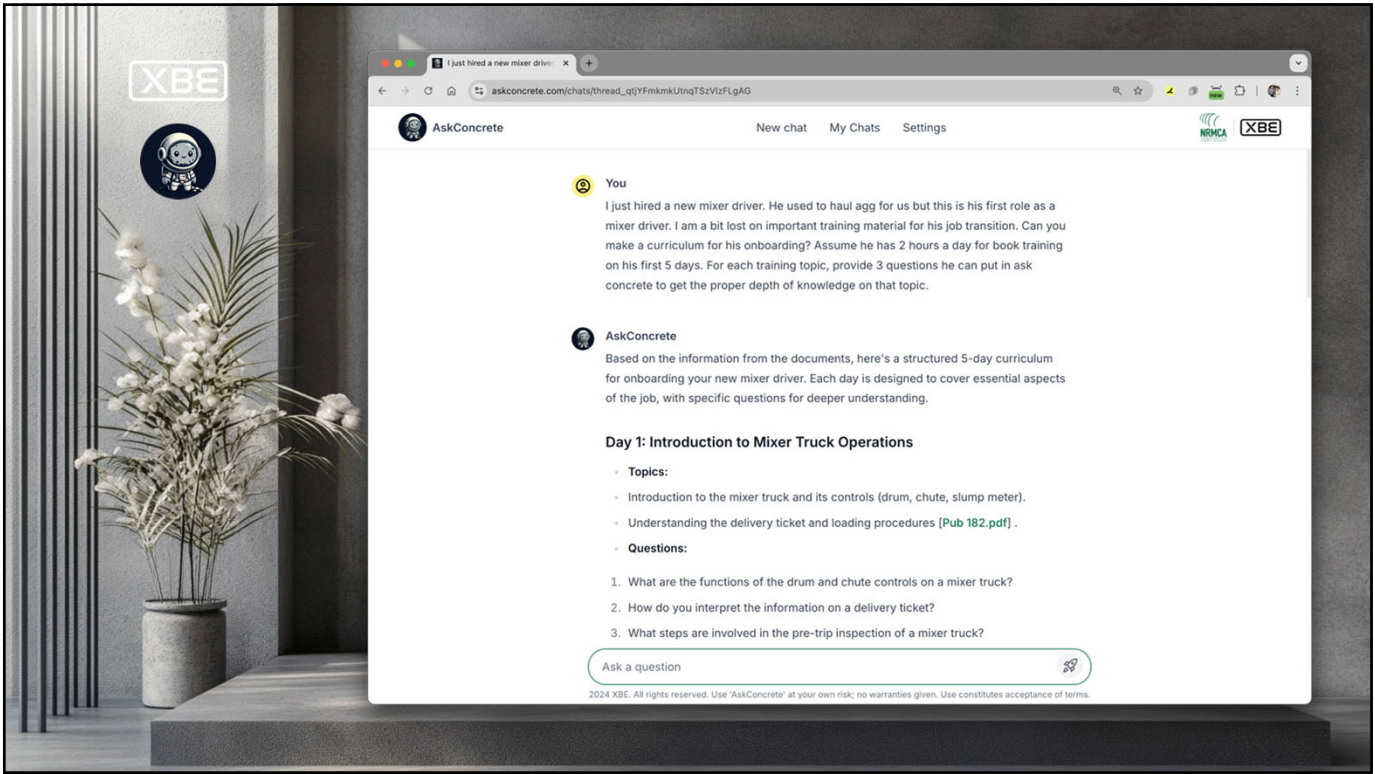


AskConcrete.com

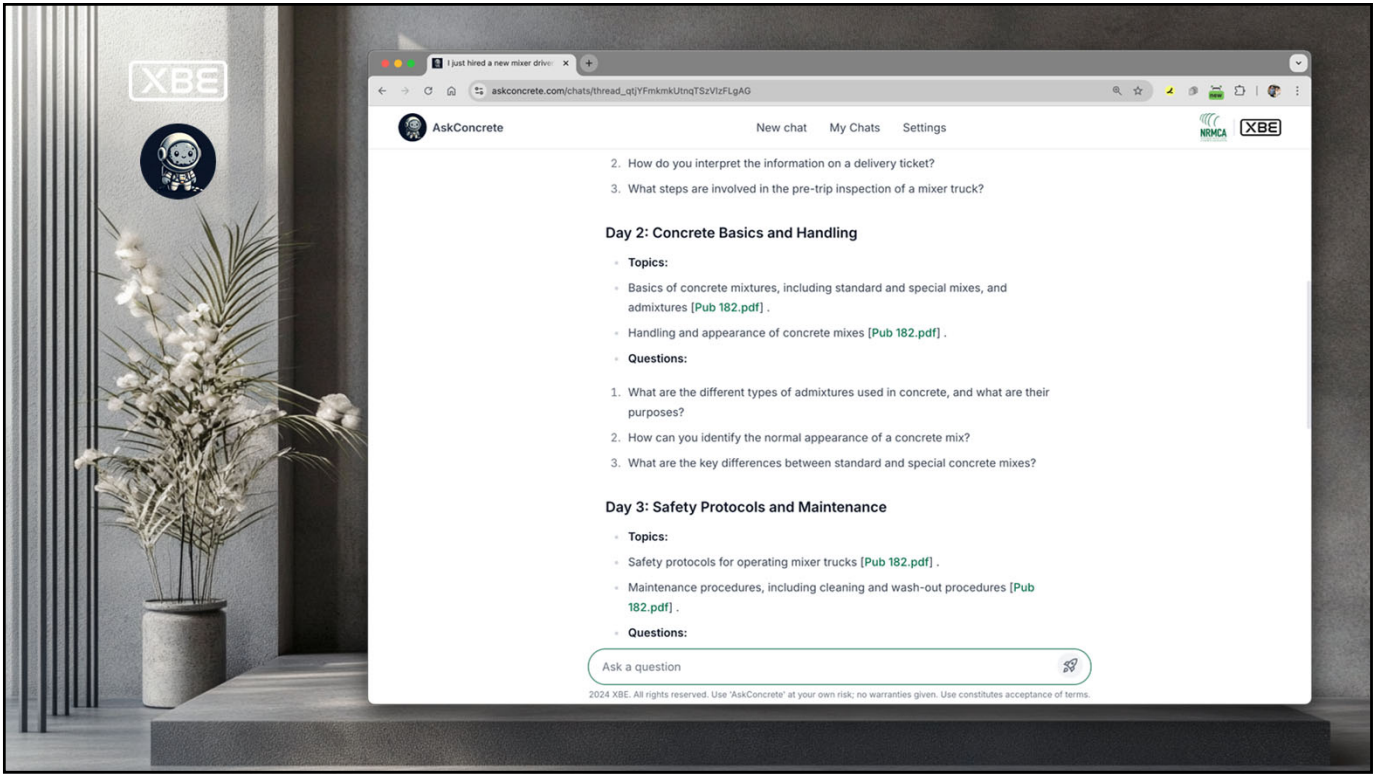
Advanced Examples



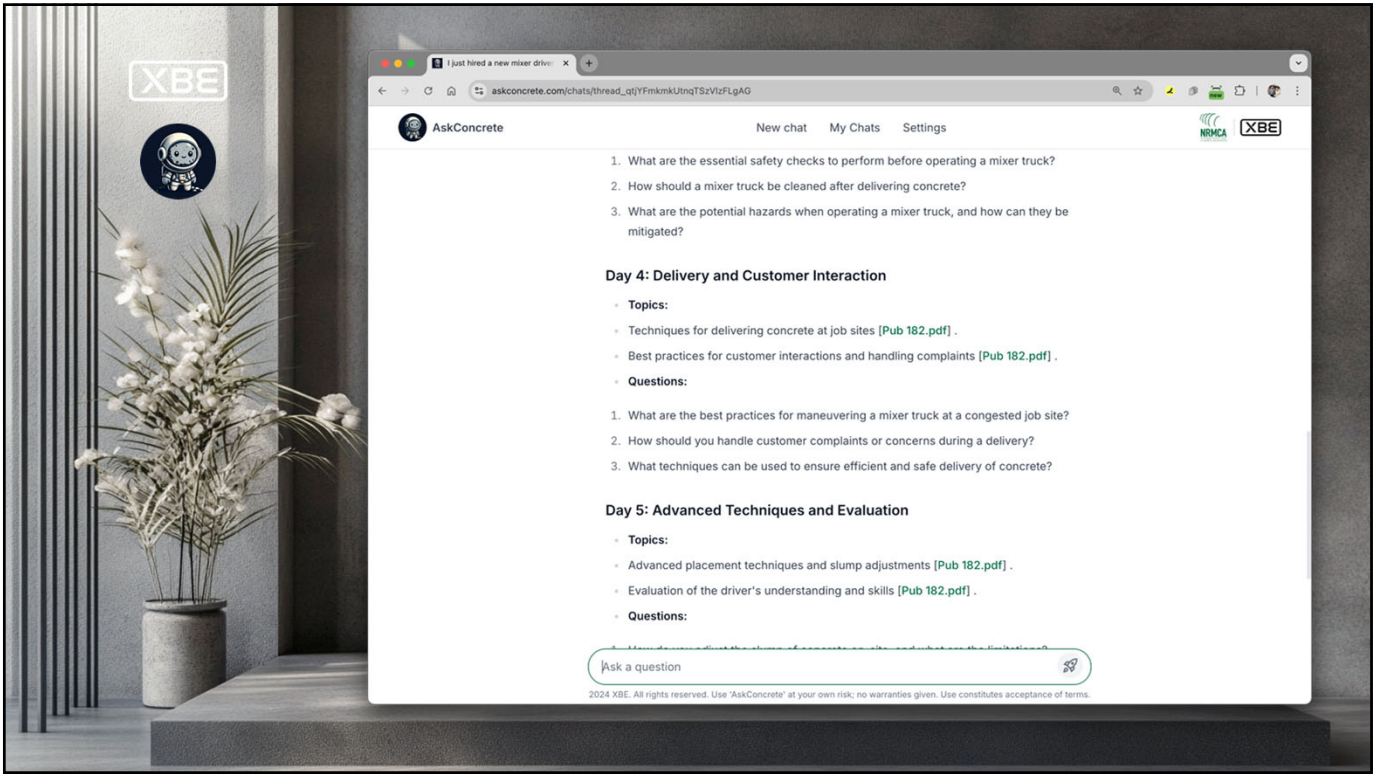
32



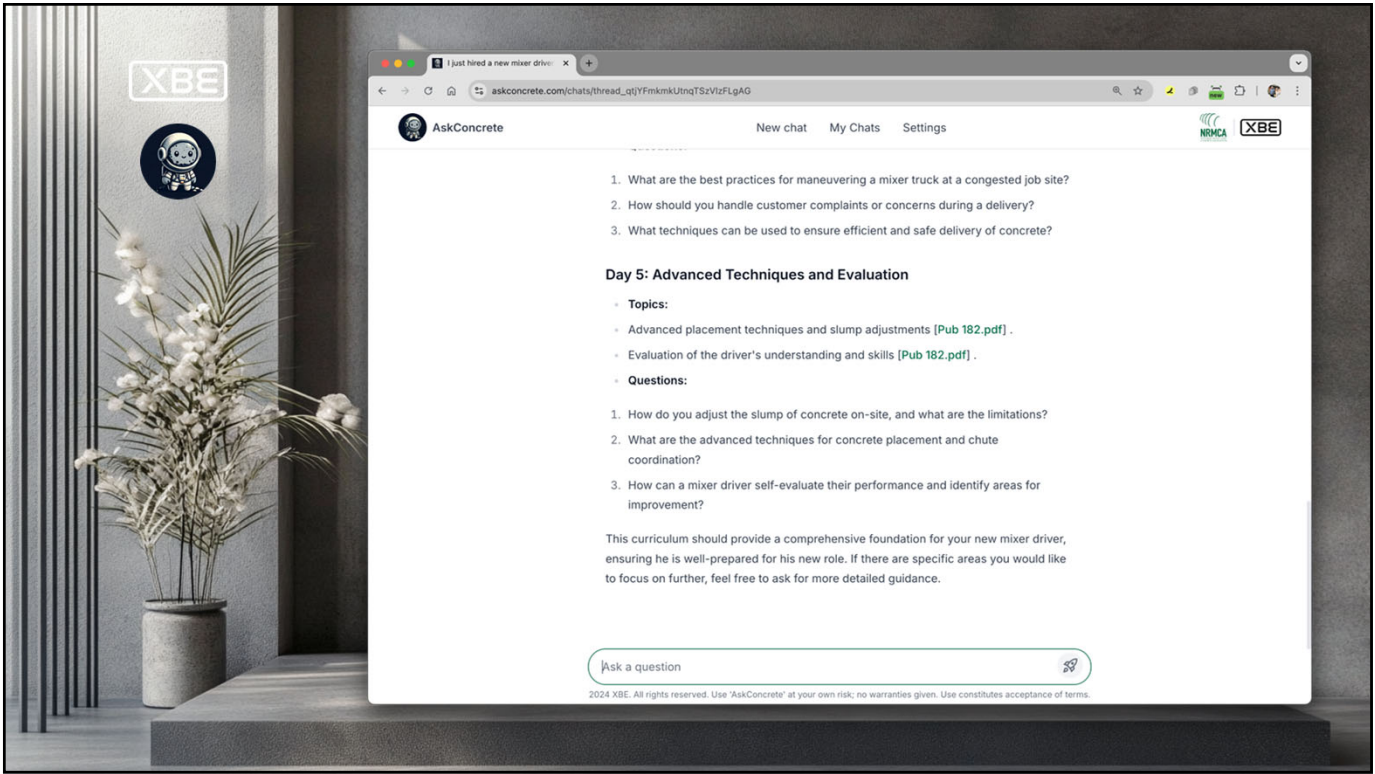
33



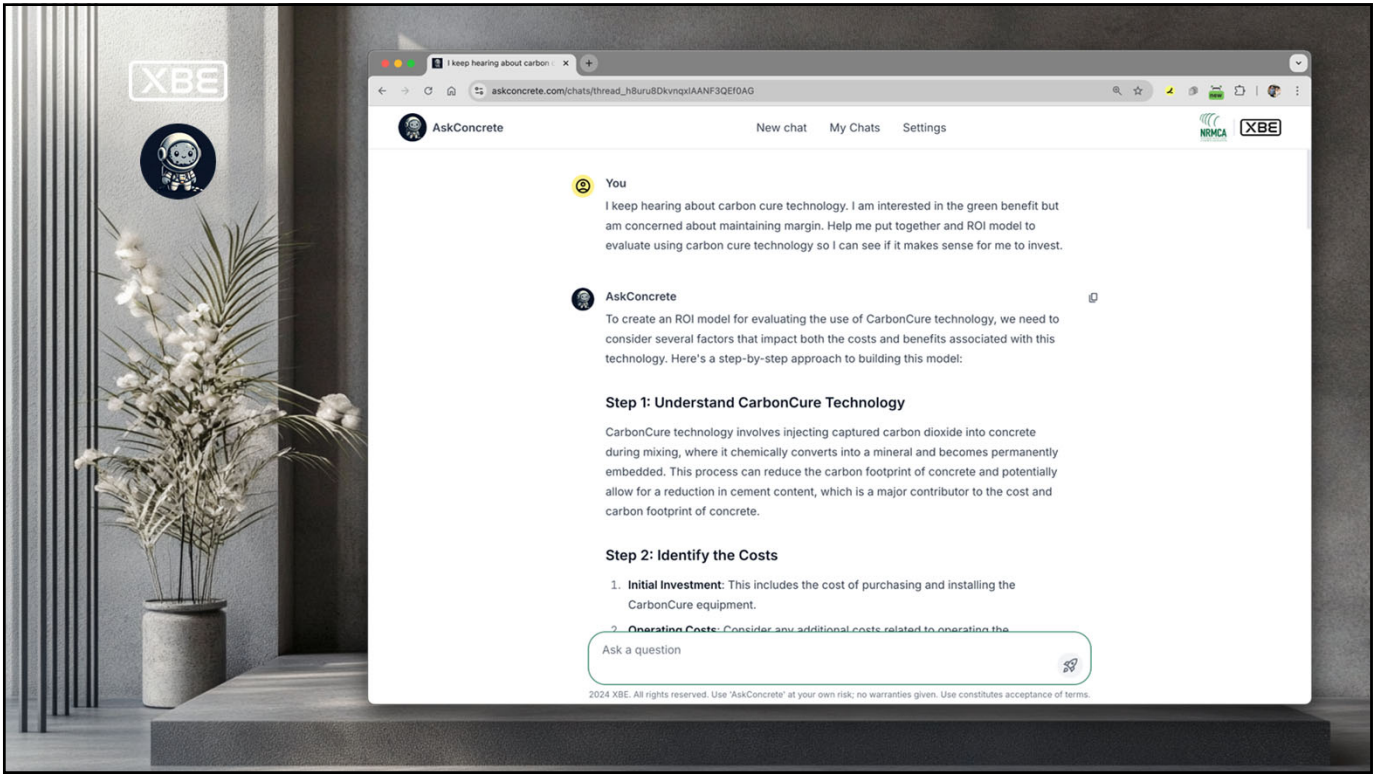
34



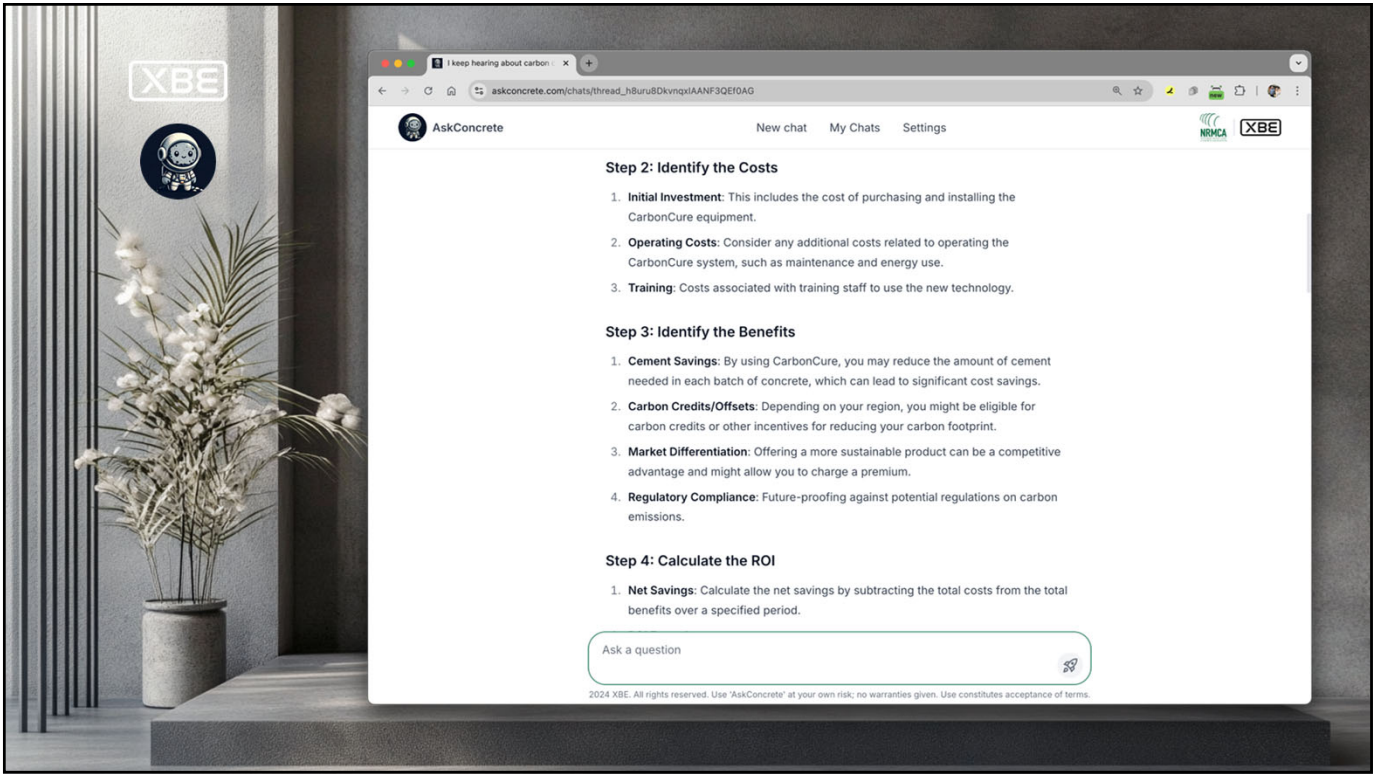
35



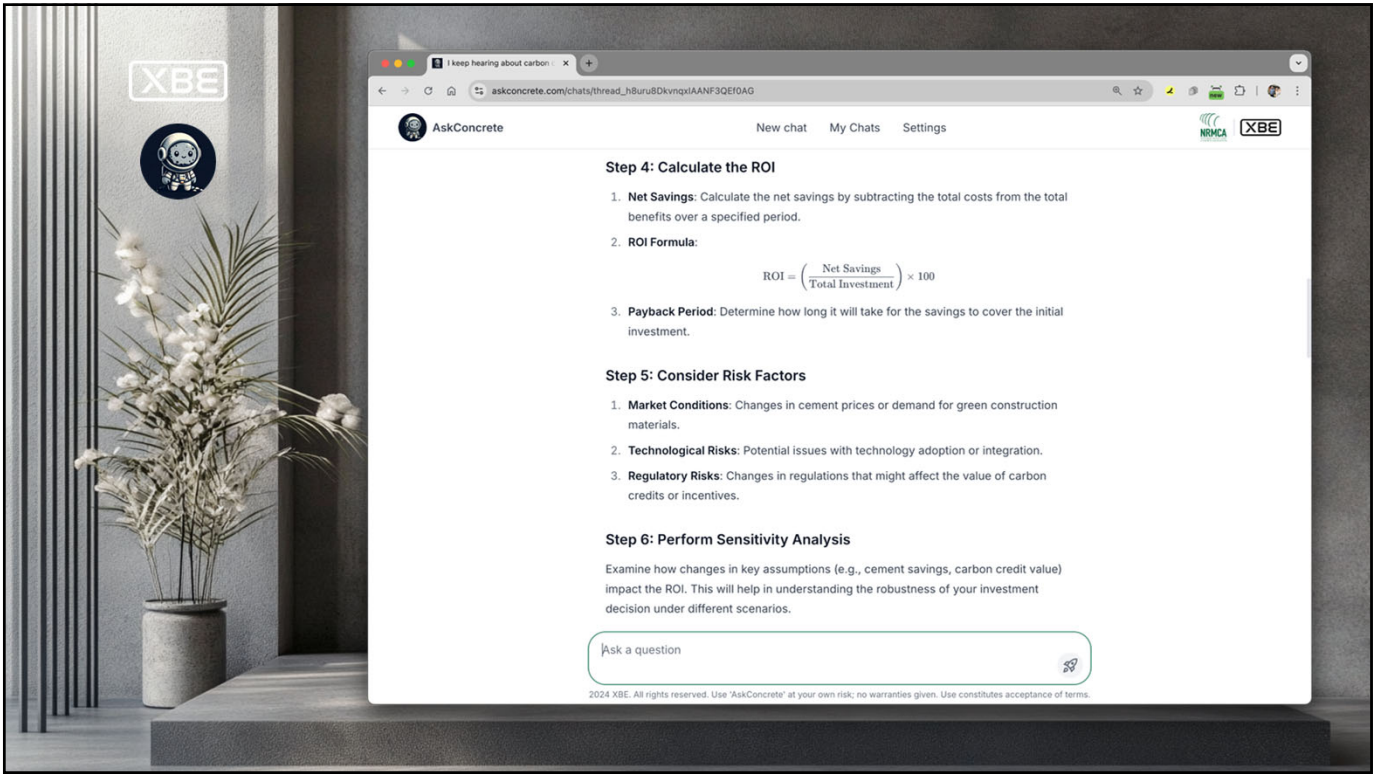
36



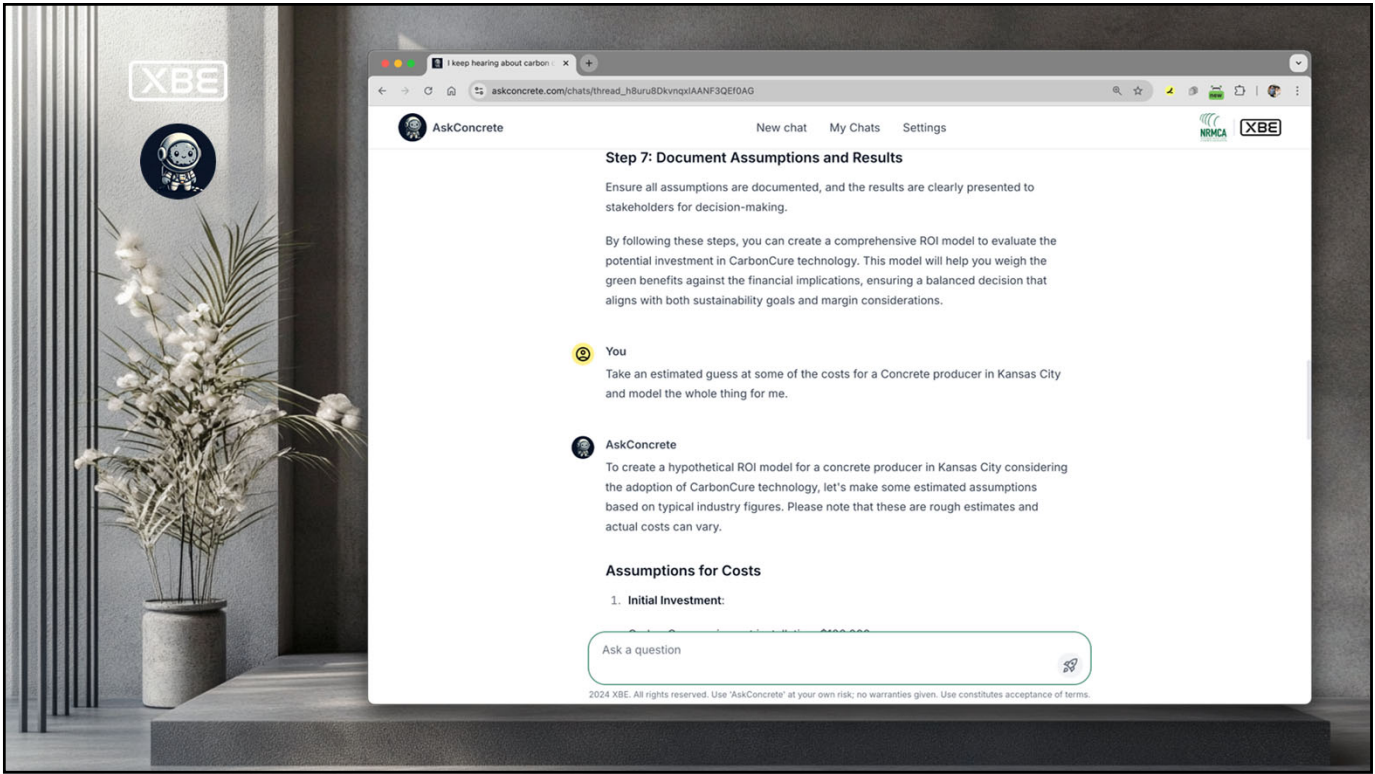
37



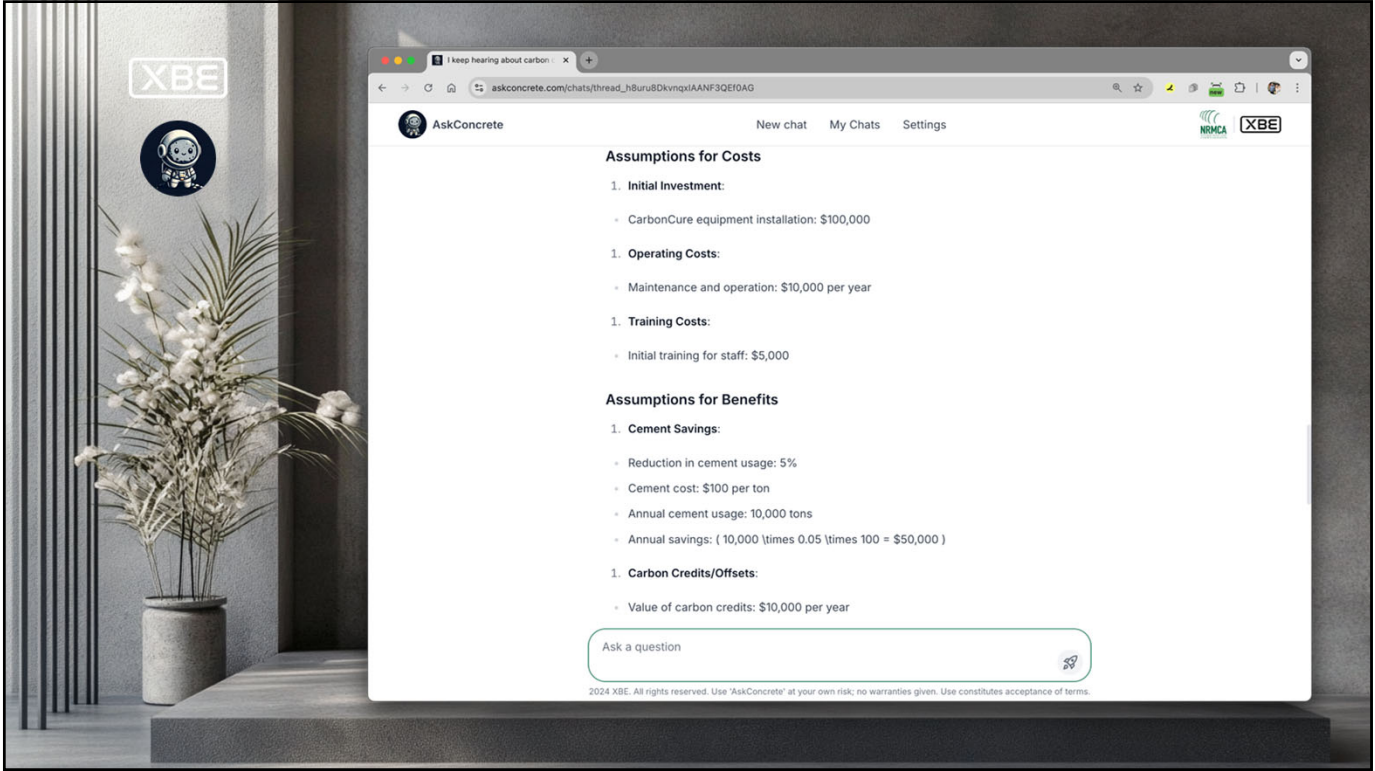
38



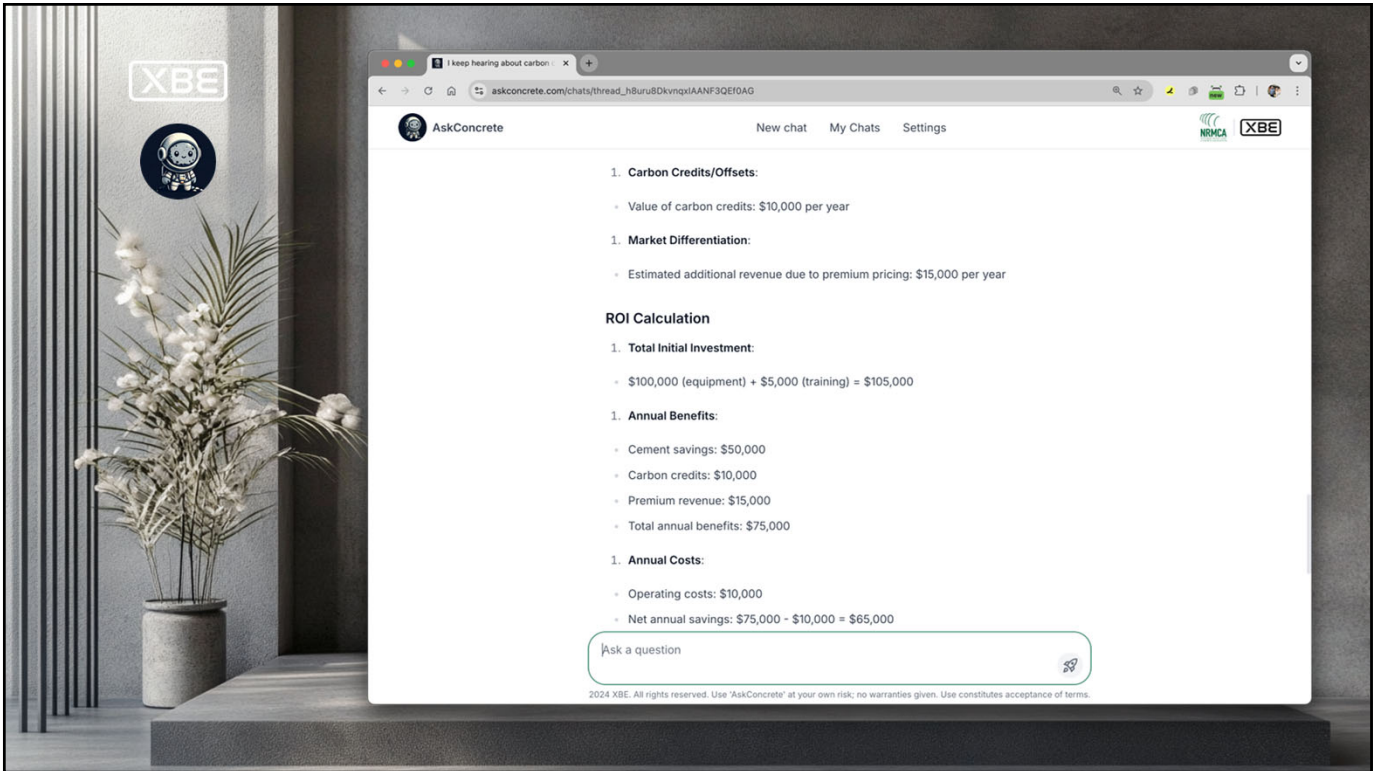
39



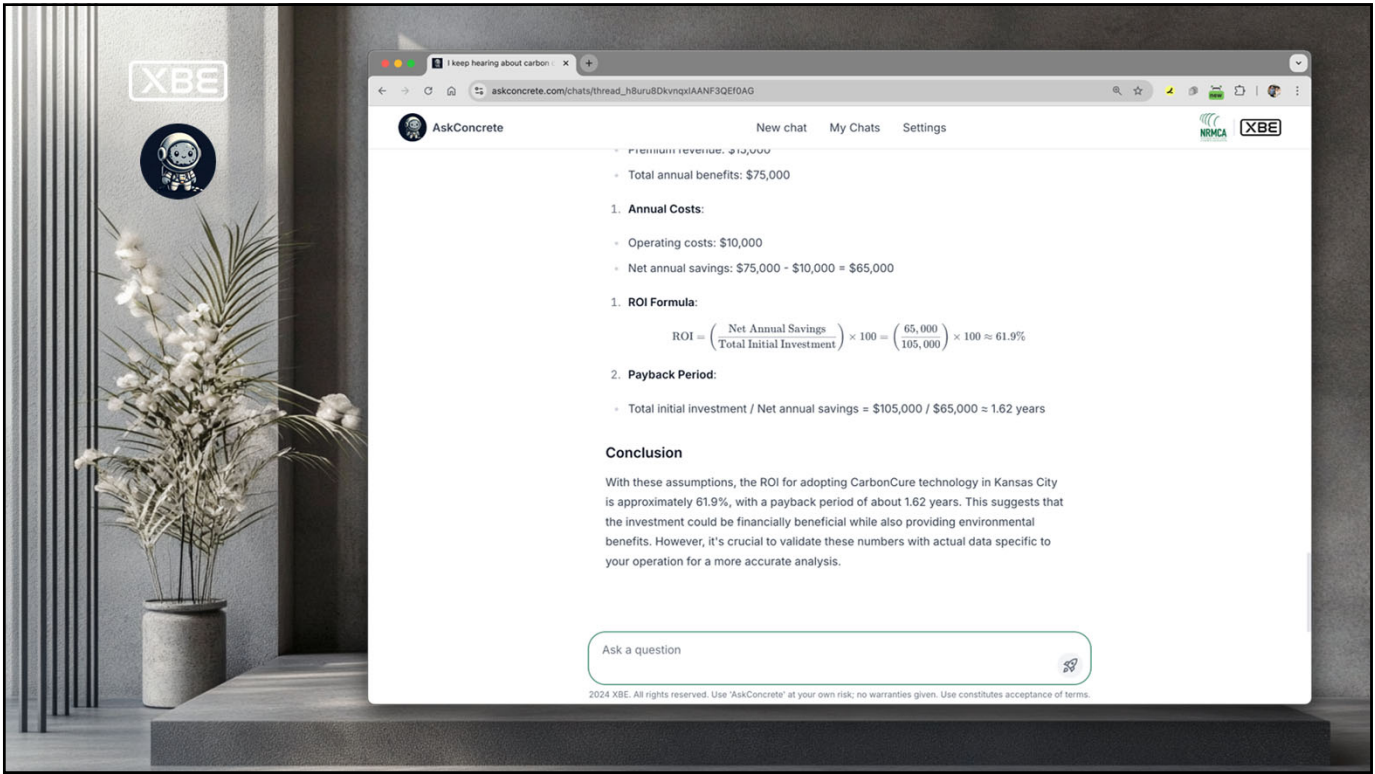
40



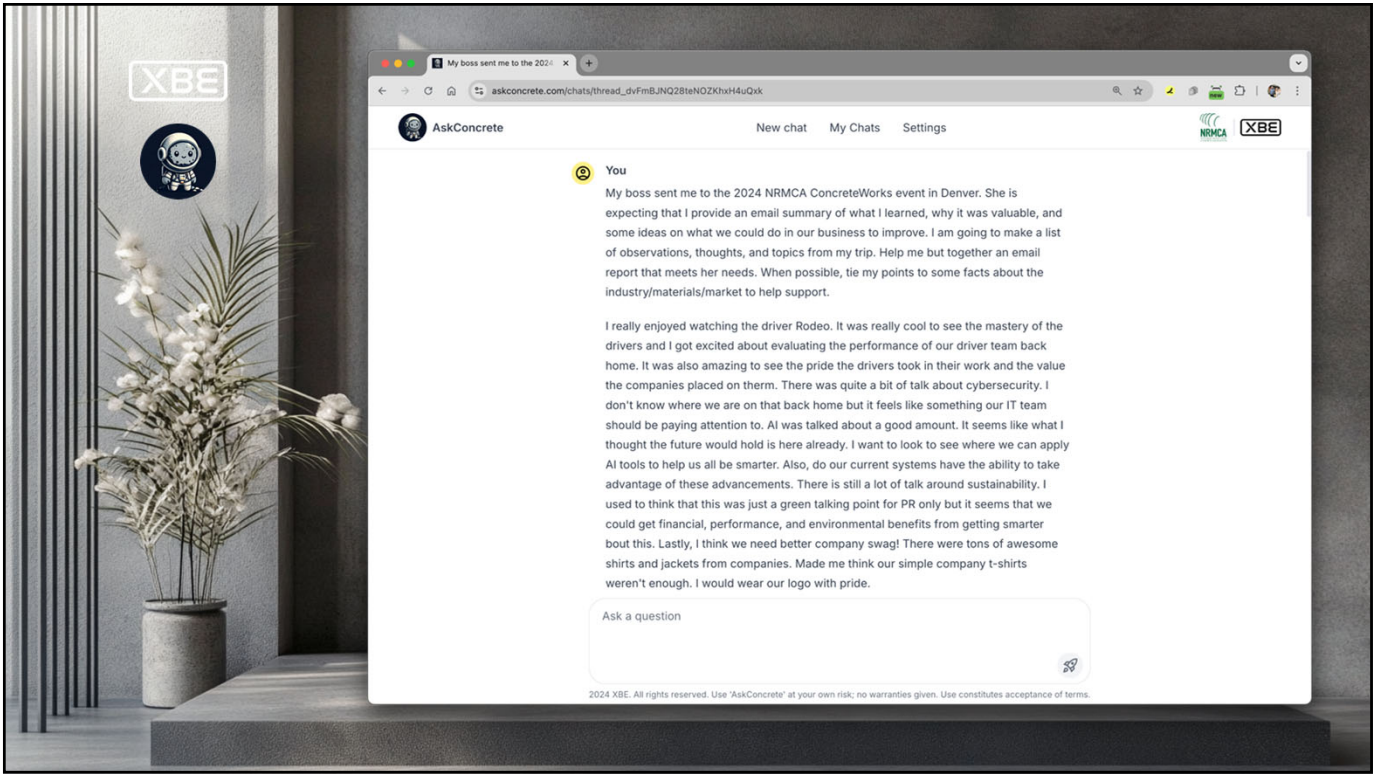
41



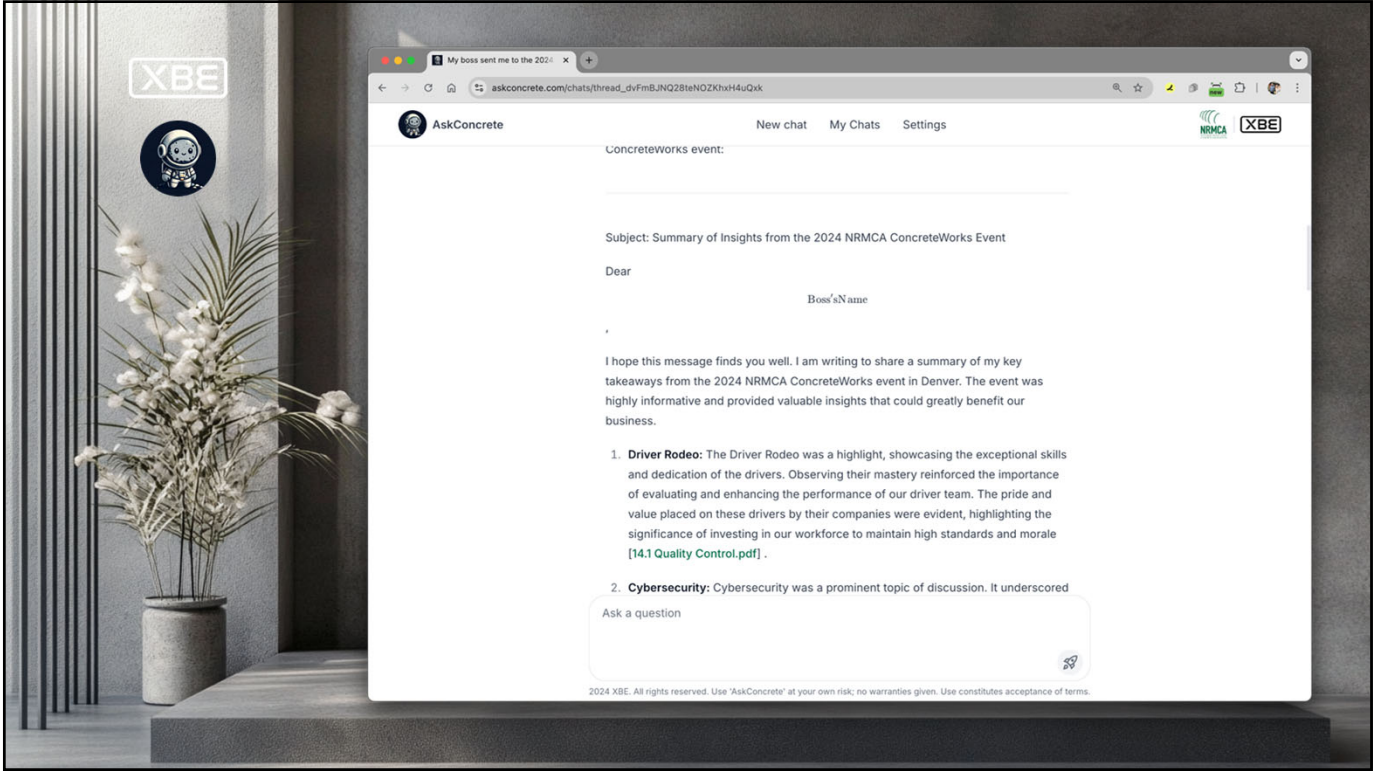
42



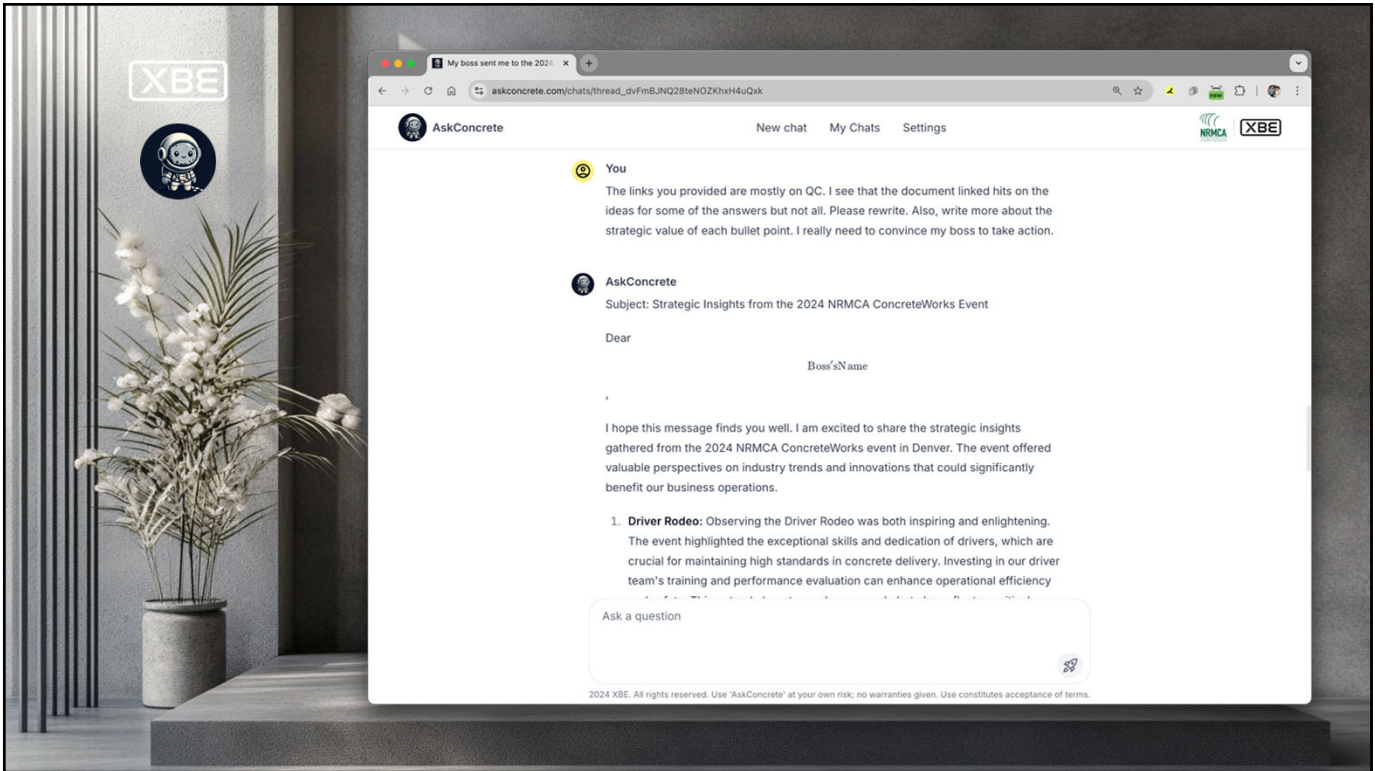
43



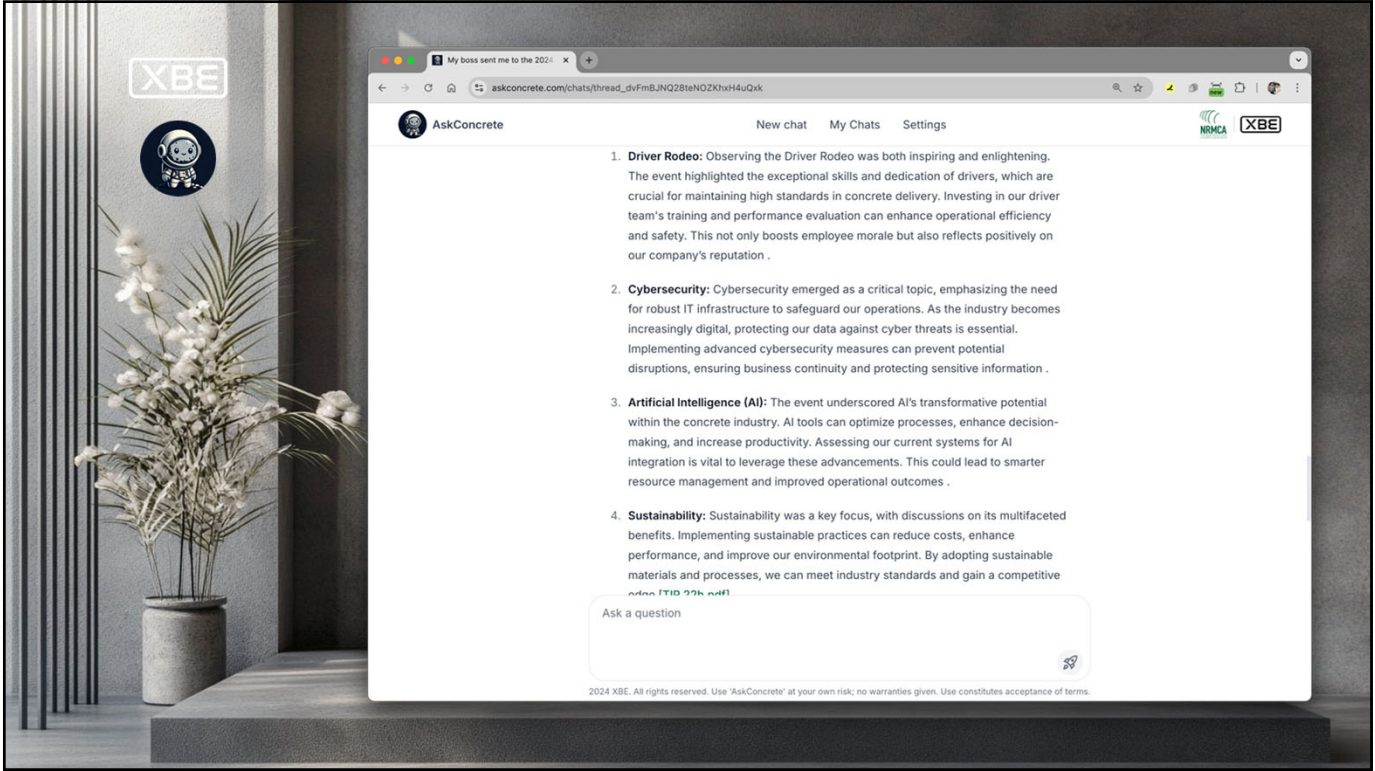
44



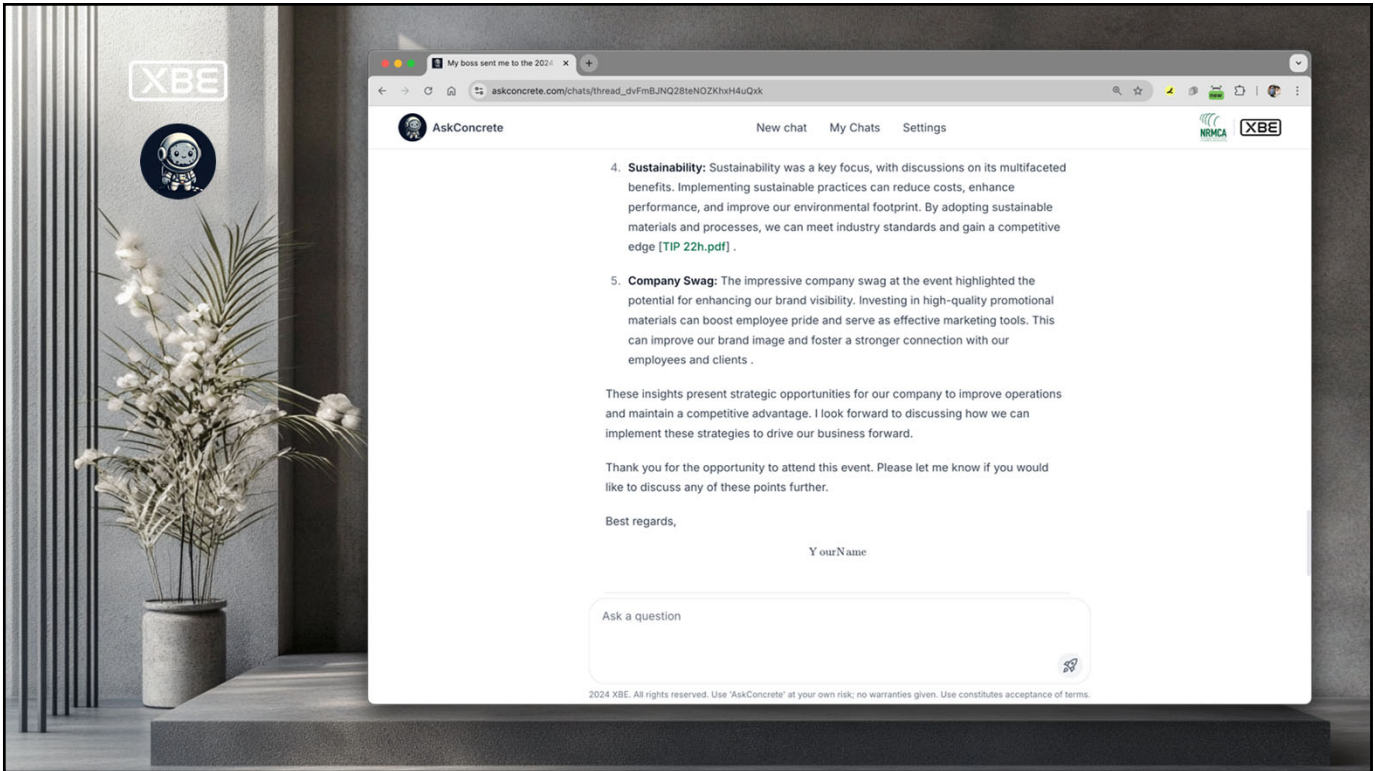
45



46



47



48

